

9721
QUÆSTIONES
PHILOSOPHICÆ

In iusti SYSTEMATIS Ordinem
DISPOSITÆ;

AUCTORIBUS Adductis,

ET

Singulis in proprias HYPOTHESES dispartitis.

EDITIO SECUNDA, multò Auctior, & ad Usus
Philosophicos Accommodator.

Ad calcem subijcitur.

APPENDIX de Legibus Disputandi.

Operâ THO. JOHNSON, A. M.
Coll. Magd. Cantab. Soc.



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PHILOSOPHIC

DISPOSITIVE

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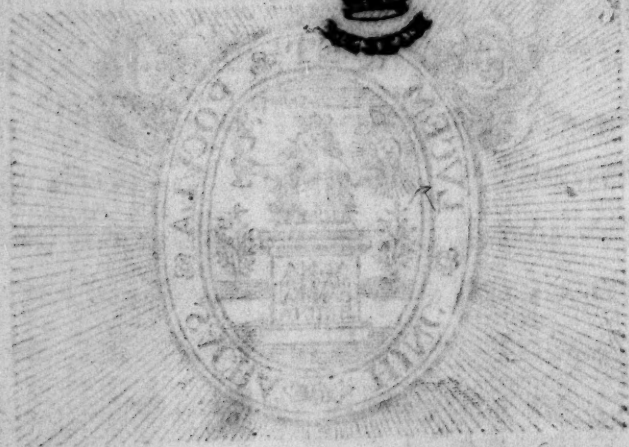
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APPENDIX de Legibus Dispositis.

W. TOWERS, *Procan.*



CAUTION

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Juventuti Academicæ

Philosophicis Studiis Vacanti

S.

CUM tertio abhinc anno Moderatoris partes in scholis philosophicis sustinuerim, & animum, ut par erat, ad ea quæ ratio muneris postulare videbatur, penitus adjunxerim; nihil prius aut antiquius habui, quam ut vobis esset in manibus liber aliquis, qui in delectu *Quæstionum Philosophicarum* habendo, atque in notitiâ

auctorum, qui singulas illustrarunt,
 comparandâ adjumento esse possit.
 Eâ mente, & spe Quæstionum fe-
 rri institui, earum scil. quas ar-
 bitrabar disputationibus vestris ma-
 teriam præbere posse. Protinus
 typis mandantur: in vestrum usum
 prodeunt, emptores facile inve-
 niunt. Quod cum mihi notum fe-
 cit Bibliopola, significans libellum
 istum ut ut rudiorum & imperfectum
 a plurimis tamen desiderari, id ro-
 gatû suo a me impetravit, ut edi-
 tionem alteram adornarem. Re me-
 cum pensitatâ, facile judicavi cum
 Quæstionum tum Auctorum uberi-
 orem copiam plurimo cum fructu
 suppleri posse. Eo consilio totum
 librum recensui, cum tandem ad
 eam, quam videtis, molem excre-
 verit, non ingentem quidem, nec
 profectò, si materiam quam com-
 plectitur

plectitur spectemus, valde exiguam. Denique præter rerum ubertatem, ea accessit forma & habitudo, ut alterum potius dixerim parari librum quam editionem, cui quas inesse volui commoditates, paucis a me accipite.

Auctores, quorum plurimos accedere dixi, non solum Libri, Capituli & Commatis vel Paginæ designatione expressi; verum etiam suâ unumquemque Hypothesi distinxi, atque in tot Partes vel Sectas distribui, quot de unoquoque Quæsito crearunt Philosophorum Opinionones. Unde duplex enascetur commodum; ut si cui minus suppetat vel otium vel Facultas plurimos auctores consulendi, ex tanto delectu desumat eum, qui sibi visus fuerit commodissimus: deinde ut uni-

unicuique uno intuitu pateat, quænam Hypothesis optimis & probatissimis auctoribus comprobetur. “ Etsi enim id probare non possumus, quod de *Pythagoreis* accepimus; quos ferunt si quid affirmarent in disputando, cum ex iis quæreretur, quare ita esset, respondere solitos, *ipse dixit* :” * (sive sit ipse *Pythagoras* sive *Aristoteles*) Attamen non cum quibusdam aliis dicimus auctoritatem pro nihilo semper habendam esse, rationum momenta ubique esse quærenda. Apud homines vel negotiis occupatos vel ab usu librorum disjunctos semper valuit Auctoritas & valebit semper.

Deinde non intra Scholæ aut Academiæ fines me continui, ut dis-

* Cicero de Nat. Deor. I. 5.

putationibus

putationibus vestris solummodo materiam administrarem, verum de communi, de quo quæri solet, vel, ut aiunt, *de quolibet ente* quæstiones collegi: adeo ut universa pæne Philosophia, quæ in contentionem venire possit, uno pateat intuitu ad Systematis modum composita & digesta. Hodiernâ igitur Philosophiâ in generalia quasi capita dispertitâ & in certas classes distributâ, Juventus Academica his tabulis adjuncta, in *locos communes* facile digeret quæcunque inter legendum occurrant notatu digniora; auctoresque subinde novos, uti à prelo exierint, suis sedius addicet.

Appendicis loco subnectitur de Legibus Disputandi brevis monitio à cl. *Heerebordo* olim conscripta; non animo conditiones cæteris præscribendi

scribendi aut quasi voluerim meo
more inter disputandum agi, sed
quia observaverim Juventutem no-
stram disputantem nullis legibus
facile se pati contineri, interea dum
meliores prodierint commodum ra-
tus, has potius observari quam nul-
las.

Coll. Magd. Cantab.

Nonas April.

M.DCC.XXXV.

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THO. JOHNSON.

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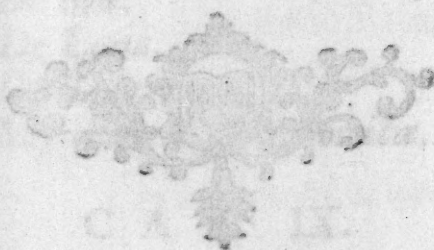


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CAP.

[1]

Quæstiones Philosophicæ.

C A P U T I.

QUÆSTIONES PHYSICÆ; *vel*, DE
CORPORE *in genere*.

I. **U**TRUM Methodus ratiocinandi analytica & experimentalis in Physicis disciplinis sit præferenda?

Affirmant *Baconus* in *Nov. Organ.* L. i. Aphor. 19. seqq. *Newtonus* in *Optice* sub finem. Bp *Sprat's* History of the Royal Society *passim*. Dr. *Pemberton's* View of Sir *Isaac Newton's* Philosophy, *Introduct.* *Locke's* Essay on Hum. Und. B. iv. c. 12. § 10. Dr. *Shaw's* Abridgment of Mr. *Boyle's* Works, Vol. I. P. i. *Chambers's* Dictionary, ad vocem EXPERIMENTAL.

In Hypothesibus plus æquo fiduciæ habuere veteres; (*Bacon. loc. citat. Aph. 45.*)

B

Et

2 QUÆSTIONES PHYSICÆ.

Et *Cartesius* aliique. *Pemberton's* Introd. p. 7. *Friend's* Chym. Præl. p. 152. *Hales* Stat. V. H. Pref. p. 12. Eas autem non prorsus repudiandas esse docet *Lockius* de Intellectu humano. L. iv. c. 12. § 13.

Ex causis finalibus ratiocinari licet, sed cautè. *Boyle* on final Causes; or, *Shaw's* Abridgment, V. H. p. 150. *Antonius Le Grand* in Philos. Institut. P. iv. c. 25.

Ex analogia ratiocinari æquum est in Rebus Physicis. *Locke* on Hum. Und. L. iv. c. 16. § 12.

2. Utr. Corpus sit adæquatum Physices objectum?

Aff. Plerique e philosophis recentioribus. Vid. *Jac. Ode* Princip. Natur. Philos. L. i. Def. 2. p. 2. *Gravesande* Physices Elem. Math. L. i. c. 1.

Sunt, qui Physices campum latius extendunt, præsertim e veteribus. Vid. *Aristot.* de Anima, L. i. c. 1. *Francisci Bayle* Institut. Physic. Tom. I. Proleg. § 10.

Disputatio de hac re instituitur in *Philosophia Burgundia*, Tom. II. c. 1. p. 668.

3. Utr. Detur in rerum natura ARISTOTELIS materia prima?

Neg.

Neg. Anton. Le Grand Institut. Philos. R. iv. c. 1. Fr. Bayle Instit. Physic. Tom. I. p. 14, 20. Nec sunt, qui affirmant præter Scholasticos quosdam mentem Aristotelis haud recte assequentes. Huic affinis est Quæstio

4. *Utr. Detur forma substantialis ab ipsâ substantiâ distincta?*

Affirmârunt Scholastici quidam doctores, prave *Aristotelem* interpretantes Latine. Vid. *Jac. Ode Philos. Natur. Princ. L. ii. S. 1. c. 3. p. 50. In saniori sensu Philosophi mentem explicuere Græci interpretes, aliique recentiores, uti notat Sturmius in Physic. Elect. Tom. I. p. 78, 382. Conf. Aristot. Metaph. c. 2. & Phys. l. 2. c. 3. Eustach. Phys. p. 123.*

Neg. Robault. Phys. P. i. c. 6. Clerici Physic. L. v. c. 1. § 12. & c. 6. Glisson. de Substantia, c. 7.

Hæc materia ex utraque parte disputatur in *Philos. Burgund. Tom. II. c. 2. p. 684.*

5. *Utr. Quatuor sint corporum Elementa; viz. Terra, Aqua, Aër & Ignis?*

Aff. Aristot. de gener. & corrupt. c. 2, 3. Metaph. L. v. c. 5. Eustach. Phys. p. 207.

4 QUÆSTIONES PHYSICÆ.

Neg. Philosophi recentiores. *Jac. Ode* Philos. Natur. Princ. L. ii. S. i. c. 4. p. 54. *Clerici* Physf. L. v. c. i. § 13, 14.

Veterum sententias de Elementis exposuere *Robault.* Physf. P. i. c. 19, 20. *Sturm.* Physf. Elect. Tom. II. p. 15. *Buddei* Theoret. Philos. P. v. c. 3. § 2.

Quæstio fuse excutitur in *Philosf. Bur.* Tom. II. Differt. iii. p. 716.

6. *Utr.* Tria sint corporum Elementa vel Principia?

Aff. *Cartes.* Princ. Philos. P. iii. § 69, 70. & P. iv. § 6, 7. *Le Grand* Instit. Phil. P. iv. c. 6. *Claubergii* Opera Physf. p. 33. *Robaulti* Physf. P. i. c. 21.

Ambigitur in *Philosf. Burgund.* Tom. II. Differt. ii. c. 3. *Franc. Bayle* Instit. Physf. Tom. I. p. 384.

Neg. *Jac. Ode* Philos. Nat. Princ. L. ii. S. i. c. 4. p. 57. Varias Philosophorum opiniones de Elementis conciliare inter se aggreditur *Buddeus* in *Philosf. Theor.* P. v. c. 3. § 13.

7. *Utr.* Elementa maneat in mixto?

Aff. *Aristot.* de Cælo, L. iii. c. 3. De Generat. L. i. c. 7. *Eustach.* Physf. p. 222.

8. *Utr.*

8. *Utr.* Unicum sit omnium corporum Elementum? Sive

Utr. Omnia corpora consistant ex corpusculis primogeneis, incompositis, & in alia minora non resolvendis?

Affirmarunt e vetustissimis Philosophis *Democritus*, *Epicurus*, cæterique qui vocantur *Atomistæ*. Vid. *Lucret.* L.i. v. 549. *Plutarch.* de Plac. Philos. L. i. c. 3. *Cudworth's Intellectual System*, Ch. i. § 5. & passim.

Negat *Cartesius* cum suis. V. Libros supra citatos Qu. 6.

Affirmant vicissim *Newtoniani*. V. *Newton.* Princ. Math. L. iii. in pr. p. 388. Ejusdem *Optic.* p. 313. *Musschenbroek* Elem. Phys. Math. § 61, 83, 383. *Joan. Keilii* Epistola de leg. Attractionis, Theor. iii. Dr. *Cheyne's* Philos. Princ. Ch. ii. p. 59. *Gassendi* Syntagm. Philos. Epic. P. ii. S. i. c. 4. p. 238. *Stairius* in Nov. Exper. Explic. ii. S. i. *Boyle* on the Principles of Natural Bodies. *Ray* on the Creat. p. 68, 85.

Varias Philosophorum opiniones de hac re vid. apud *Buddei* Philos. Theoret. P. v. c. 3. *Jac.* Ode Phil. Nat. Princ. L. ii. S. i. c. 4. p. 59.

9. *Utr.*

6. QUESTIONES PHYSICÆ.

9. *Utr.* Omnis materia sit homogenea ?
Negant *Cartesiani*. Vid. *Quæstionem sextam*.

Disputatur de hac re in Philos. Burgund.
Tom. II. Dissert. ii. p. 701, &c.

Neg. Dr. *Green*, Principles of Philosophy, p. 6. *Cartesii* Princ. Philos. P. iii. § 32. *Regnault's* Philosoph. Conversations, V. I. p. 35.

Aff. *Newtoni* Princ. Math. L. ii. Prop. 31. Schol. gen. p. 316. Eiusdem Optic. p. 313. *Jac.* Ode Philos. Nat. Princ. L. i. S. i. c. 2. p. 13. Dr. *Desaguliers's* Course of Exper. Philos. V. I. p. 3, 22. *Keil* Introd. ad Phys. Lect. viii. p. 79. *Huetii* Censura Philos. *Cartes.* cap. 5. Dr. *Pemberton's* View of Sir *Isaac Newton's* Philosophy, Intr. p. 21.

Hanc excipit *Quæstionem* altera haud dissimilis ;

10. *Utr.* Detur materia quædam subtilis & resistentiæ expers ?

Aff. *Cartesii* Princ. Philos. P. iii. § 33, 49. *Regnault's* Philosoph. Conversations, V. I. p. 27. *Hook's* Posth. Works, p. 172.

Neg. *Newtonus* in locis supra citat. Conf. *Cotesii* Præf. ad *Newton.* Princ. qui disputa-
tionem

tionem totam fieri de rerum nominibus,
non de naturis existimat. Vix opus est ut
plures consulas.

11. *Utr.* Admittendus sit NEWTONI
Æther subtilis?

Aff. Newtoni Princ. Math. p. ult. E-
jusdem Optice, L. iii. in Quæst. 17, 1699.
Pemberton's View, Introduct. p. 22, 406.
Chambers's Dictionary, ad vocem ÆTHER.
Quiddam huic simile innuere videntur
Boyleus, de Orig. Formarum. Shaw's A-
bridgment, V. I. p. 284, & Vol. II. p.
504, 508. Hook in Op. Posth. p. 29, 365.
& alibi sæpe. Lord Bacon's Works, a-
bridg'd by Dr. Shaw, V. II. p. 25, 57.

12. *Utr.* Gravitatio corporum sit in ra-
tione quantitatum materię?

Qui in decima quæstione stant ex par-
te affirmativa, in hac sunt negativi, & vice
versa. Conf. Joann. Keil Introd. ad Phys.
Lect. x. Gravefande's Phys. Elem. Math.
L. i. c. 9. Whiston's Prælect. Phys. Math.
Lect. xxviii, xxxiv. Jac. Ode Philos. Nat.
L. ii. S. 1. c. 2. p. 40. Newtoni Princip.
Math. L. iii. Prop. 4---8. Clarkii Notas
ad Robault. Phys. P. ii. c. 28. § 13. Le
Grand Histor. Nat. P. ii. Art. 4.

13. *Utr.*

13. *Utr.* Essentia corporum ponatur in Extensione ?

Affirmant omnes ad unum *Cartesiani*. Vid. *Cartesii* Princip. Phil. P. ii. § 4, 5. *Ant. Le Grand* Histor. Nat. P. i. Art. i. & Institut. Philos. P. iv. c. 3. *Robaulti* Phys. P. i. c. 7, 10. Philosoph. *Burgund.* Tom. II. P. i. Dissert. 2. c. 3. p. 708. *Gul. Muys* Elem. Phys. S. i. p. 19.

Negant & in soliditate ponunt *Newtoniani*. Vid. *Newtoni* Princip. Math. L. ii. Prop. 31. p. 316. *Cotesii* Præfat. ad *Newtoni* Princip. *Musschenbroek* Epit. Elem. Phys. Math. P. i. c. 4. p. 21. *Huetii* censura Philosoph. *Cartesianæ*, c. 5. *Desaguliers* his Course of Experimental Philosophy, Vol. I. Lect. i. p. 2. *Joan. Keil* Introd. ad Phys. Lect. ii. *Jac. Ode* Philos. Nat. Princ. p. 31.

Sunt, qui eam in vi quâdam activa consistere volunt, ut *Leibnitzius*, ejusque Secutores. V. Acta Eruditor. *Leiphsenf.* A. D. 1694. p. 112. & 1695. p. 145. Papers betwixt *Leibnitz* and *Clarke*, p. 376. Dr. *Green's* Philos.

Utr. Detur Vacuum ?

Aff. New-

Aff. Newtoni Princ. Math. L. iii. Prop. 2. Cor. 4. p. 402. & p. 356. *Ejusdem* Optic. p. 310. *Jac. Ode* Princ. Nat. Philos. L. ii. S. 1. c. 2. p. 38. *Gravesande* Phys. Elem. Math. 4to, vel Institut. Philosoph. *Newton.* 12mo, L. iv. c. 12. *Buddei* Philos. Theoret. P. v. c. 1. *Baker's* Reflections, c. 7. p. 80. *Musschenbroek* Elem. Phys. P. i. § 47. *Cheyne's* Philos. Princ. P. i. p. 12. *Huetii* Censura Philos. *Cartes.* c. 5. *Joan. Keil* Introd. ad Phys. Lect. ii. *Clerici* Physic. L. v. c. 2.

Varias Philosophorum de Vacuo sententias copiose expositas vid. apud *Franc. Bayle* Instit. Philos. Tom. I. p. 75---83.

Neg. Cartesii Princip. Philos. P. ii. § 11, 16. *Robaulti* Phys. P. i. c. 12. *Philos. Burgundia*, Tom. ii. Dissert. 2. c. 2. p. 706, 853. *Regnault's* Philosoph. Conversations, V. I. p. 45. *Dr. Green's* Princip. of Philos. B. i. c. 1. *Le Grand* Instit. Philos. P. iv. c. 3. § 8. & c. 13. & Hist. Nat. P. i. Art. 2.

15. *Utr.* Corpus, quà corpus, sit divisibile? Sive,

Utr. Materia sit divisibilis in infinitum?

Aff. Keillii Introd. ad Phys. Lect. iii, iv. v. *Gravesande* Elem. Math. Physic. L. i.

10 QUÆSTIONES PHYSICÆ.

c. 4. & Scholium in Supplem. Physic. p. 1. *Musschenbroeck* Element. Physic. P. i. c. 5. *Robaulti* Physic. P. i. c. 9. *Worster's* Principles of Philosophy, p. 3. *Jac.* Ode Princip. Philos. Natur. L. ii. S. I. p. 34. *Le Grand* Instit. Philos. P. iii. c. 4. *Cartesii* Princ. Philos. P. ii. § 34.

Neg. *De Stair* Physiol. Exper. Expl. secunda, p. 6.

Ambig. *Bernier* Abregé de la Philos. de *Gassendi*, Tom. II. L. i. c. 10. *Clerici* Physic. L. v. c. 4. quorum difficultates obiectas acute solvit *Gul. Muys* Elem. Physic. p. 126.

16. *Utr.* Qualitates corporum sensibiles quiddam habeant externum sensuum simile ?

Aff. Quotquot stant ex parte formarum substantialium. Vid. supra Quæst. quartam. Et sunt inter *Aristotelis* Interpretes, qui Philosophum in hac fuisse sententia volunt : quod mihi vix aut ne vix quidem persuadere possum, ut credam. Vid. *Aristot.* de Anima, L. ii. c. 5, 9.

Neg. *Robault.* Phys. P. i. c. 2. § 8. *Locke* on Human Underst. B. ii. c. 8. § 13. *Boyle's* Origin of Forms ; or, *Shaw's* Abridg. V. I. p. 202. *Cartes.* Princ. P. iv. § 197, 198.

17. *Utr.*

17. *Utr.* Qualitates corporum sensibiles ex variâ particularum figurâ & dispositione oriantur?

Neg. Qui formas substantiales tuentur.
V. *Qu.* 4, & 16.

Aff. Boyle in loc. supra citat. *Jac. Ode* Philos. Nat. Princ. L. ii. S. i. c. 5. p. 60.
Clerici Physf. L. v. c. 6. § 11. seqq.

18. *Utr.* Saporum diversitas ex diversa particularum figurâ oriatur?

Aff. *Clerici* Physf. L. v. c. 12. *Clarkii* Not. ad *Robault.* Physf. P. i. c. 24. § 38.
Derham's Physico-Theol. B. iv. c. 5. *Grew's* Lectures before the Royal Society, Lect. vi.
Wedelii Theoria Saporum, c. 1. *Acta E-*
rud. Leiphsenf. A. D. 1703. p. 237. *Stur-*
mii Physic. Elect. Tom. I. c. 6. p. 346.
Jac. Ode Philos. Nat. Princ. L. ii. S. 2.
c. 4. p. 298. *Willis* de An. Brut. c. 12.
Le Grand Instit. Philos. P. viii. c. 13.

Neg. *Aristoteles*, & contendit saporem esse qualitatem quandam corporis humidi ex sicco terrestri & calore recocto ortam.
V. *Arist.* de An. l. ii.

Sunt, qui omnes sapes a salibus provenire arbitrantur. *Buddei* Philos. Theor. P. v. c. 4. § 13. *Jac. Ode* l. c.

12 QUÆSTIONES PHYSICÆ.

De gustûs organo & descriptione ejus,
Vid. *Regis* Phys. L. viii. par. 2. c. 4. *Lew-
enboeckii* Epistolas. *Malpighi* Opera, Tom.
II. De Lingua, p. 18.

19. *Utr.* Odorum diversitas ex diversâ
particularum figurâ oriatur ?

Neg. *Aristotelici* quidam & odorem in
re objectâ quiddam sensûs nostri plane si-
mitem esse volunt. Hos præclare refellit
Lockius de Intell. Hum. L. ii. c. 8. § 13.

Aff. *Clarkius* in Not. ad *Robault*. P. i.
c. 25. *Derham's* Physico-Theol. B. iv. c.
4. *Willis* de An. Brut. c. 13. *Jac.* Ode
Philos. Natur. L. ii. S. 2. c. 5. p. 307.
Varenii Geogr. L. i. c. 19. *Boyle* on the
Origin of Forms; or, *Shaw's* Abridgment,
p. 212. *Sturmii* Phys. Elect. Tom. I. p.
336. seqq. *Franc. Bayle* Instit. Phys. Tom.
I. p. 428. *Clerici* Phys. L. v. c. 11. *Fran-
cisci de Lanis* Mag. Art. & Nat. Tom. II,
p. 69, 73, 75. *Buddei* Philos. Theor. P.
v. c. 4. § 11. *Hamelii* Opera Philos. Tom.
II. l. ii. c. 3. *Hartnacci* Admir. Phys. p.
549. *Le Grand* Hist. Natur. P. ii. Art.
68. *Niewentyt's* Relig. Philos. Contempl.
xv. § 10, 12. *Chambers's* Dictionary, ad
vocem SMELL.

De

De odoratûs organo & descriptione ejus,
Vid. *Regis Phys.* L. viii. par. 2. c. 5.

20. *Utr.* Durities sit partium quieti attribuenda?

Aff. Cartes. Princ. Philos. P. ii. § 55.

Le Grand Instit. Philos. P. iv. c. 21. § 2.

Malebranche de inquirendâ Veritate, L. vi.

c. 9. *Claubergii Phys.* contr. § 238. *Robaulti Phys.* P. i. c. 22. § 9.

Franc. Bayle Institut. Phys. Tom. I. Disp. viii. § 50, 51.

Philos. Burgund. Tom. II. p. 891.

Neg. Et pressioni ætheris attribuunt *Chr.*

Hugenius Exper. Phys. 1, 2. quæ exstant

in operibus 4to, p. 770. *Jac. Bernoulli*

de gravitate ætheris: Et pressioni ætheris

& quieti partium, *Mr. Boyle* of Fluidity

and Firmness; or, *Shaw's* Abridgment, V.

I. p. 320, 321. Eodem modo *Gul. Muys*

Elem. Phys. p. 220. qui fusè de hac re

differit.

Ambig. Regnault Philosoph. Conversat.

V. I. Conv. ix.

Attractionem ad hoc Phænomenon sol-

vendum requirit *Newtonus*, & qui eum sec-

tantur: Unde oritur Quæstio.

21. *Utr.* Cohæsiō partium corporis at-

tribuenda sit mutux earum attractioni?

Aff.

Aff. *Newtonus* in *Opt.* in *Quæst.* sub finem. *Joan. Keil* *Epistola* de legibus Attractionis, quæ exstat in operibus, Ed. 4to. *Clarkii* *Not.* ad *Robault*, P. i. c. 22. § 9. *Dr. Cheyne's* *Philos. Princ.* p. 93. *Gravesande* *Elem. Phys.* 4to, L. ii. c. 5. cum Scholio in *Supplem. Physico.* *Musschenbroek* in *Exp. Phys.* de *Cohærentiâ* corporum, 4to, & ejusdem *Elem. Phys.* L. i. c. 22. *Jac. Ode* *Philos. Natur. Princ.* L. ii. S. i. c. 6. p. 64.

Ambigi. *Clerici* *Phys.* L. v. c. 14.

Neg. Et *Newtoni* *Hypothesin* evertere aggredditur *Gul. Muys* *Elem. Phys.* p. 346.

Quæstiones de fluiditatis & humiditatis causâ, Vid. *infra*, cap. 6.

22. *Utr.* *Materiae* particulis competat vis attractrix, quæ decrescit in majori quam duplicata ratione distantiae augescentis?

Aff. *Newton*, *Keil*, *Cheyne*, *Musschenbroek*, *Ode*, *Gravesande*, in locis supra citatis. Add. *Whistoni* *Præl. Phys. Math.* p. 203. *Desaguliers's* *Course of Experimental Philosophy*, Vol. I. p. 10. *Dr. Friend's* *Præl. Chym.* *Præl.* i.

23. *Utr.* Quibusdam corporum particulis competat vis repellens?

Aff.

Aff. Desaguliers's Course of Experimental Philosophy, V.I. L.i. p. 17. *Musschenbroek* Element. Phys. § 576. seqq. p. 193. *Gravesande* Instit. Philos. P. i. n. 39. *Newtoni* Optic. L. ii. P. iii. Prop. 8. & L. iii. Qu. ult. Compendious System of Nat. Philos. P. i. c. 3. § 10. *Chambers's* Dictionary, ad vocem REPULSION.

24. *Utr.* Gravitatio sit essentialis materiæ proprietas?

Aff. Philosophical Enquiry into the Nature of Gravity. *Cotesii* Præf. ad *Newton*. Princ.

Neg. *Newtoniani*, at universalem esse docent. Vid. *Newtoni* Optic. Qu. 17. seqq. Edit. Angl. Dr. *Pemberton's* View of Sir *Isaac Newton's* Philos. Introd. p. 22. & Lib. II. c. 5. p. 259. Dr. *Cheyne's* Philos. Princ. p. 40. *Le Grand* Instit. Philos. P. iv. c. 11. *Musschenbroek* El. Phys. § 195, 538. *Chambers's* Dictionary, ad vocem GRAVITY.

25. *Utr.* Gravitationis causa solvi possit ex principiis mechanicis?

Aff. *Cartesiani*, & impulsui cuidam externo tribuunt. *Cartesii* Princ. Phil. P. iv. § 20, &c. *Hook's* Microgr. p. 22. & Post. Works,

Works, p. 180, 184, 201. *Acta Erudit. Leips.* A. D. 1690. *Robault.* Phys. P. i. c. 2. § 15. & P. ii. c. 28. § 13. *Anton.* *Le Grand* Instit. Philos. P. iv. c. 11. *Isaac Vossius* de Gravitate. *Borellus* de Vi Percuss. c. 3. Hyp. 2. N^o 3. *Stairius* in Physiol. Exper. Expl. iii. S. 9. *Regnault's* Phil. Convers. V. I. Conv. xvii. p. 233. *Clerici* Phys. L. v. c. 15. *Huygens* de la Pesanteur, p. 169. *Bernoulli* de Gravitat. Ætheris.

Neg. *Newtoni* Princ. Math. L. iii. Prop. 6, 7. p. 400. & p. ult. *Ejusdem* Optic. p. 314, 322, 345. *Pemberton's* View of *Sir Isaac Newton's* Philos. p. 407. *Clarkii* Not. ad *Robault.* P. ii. c. 28. § 13. *Gravesande* Philos. *Newton.* L. i. c. 5. *Musschenbroek* Elem. Phys. § 172, 573. *Keil* Præf. ad Phys. *Dr. Shaw's* Abridgment of *Mr. Boyle's* Works, V. I. p. 17. *Dr. Cheyne's* Philos. Prin. P. i. c. 2. *Buddei* Philosoph. Theoret. P. v. c. 4. § 18. *Miscell. Curiosa*, V. I. p. 302. *Derham's* Phys. Theol. B. i c. 5. Note a. *Chambers's* Dictionary, ad vocem GRAVITY.

Quæstio ex utraque parte discutitur in *Philos. Burgund.* Tom. II. p. 813.

Quæritur a *Newtono*, utrum Gravitatio non sit attribuenda actioni cujusdam ætheris subtilis.

tilis. V. Princ. Math. p. ult. Optic. in Quæstionibus sub finem. Dr. *Pemberton's* View of Sir *Is. Newton's* Philosophy, Intr. p. 13. Idem opinari videtur *Boyleus*. Vid. his Works abridg'd by *Shaw*, V. I. p. 19. Vid. supra Qu. 11.

26. Utr. Detur absolutæ Levitatis Principium in rerum natura?

Neg. *Musschenbroek* Epit. Physic. p. 48. *Le Grand* Instit. Phil. P. iv. c. 11. *Varenni* Geograph. Gen. L. i. c. 19. Prop. 6. cum *Jurini* Append. p. 17. Dr. *Derham's* Phys. Theol. B. i. c. 5. note f. *Borelli* de Motu à Grav. pend. c. 4. Experiments of the Academy *Del Cimento*, p. 11. *Wallis* on Gravity, in Philos. Transact. A. D. 1674. p. 28. Dr. *Shaw's* Abridgment of *Boyle's* Works, V. II. p. 362, 365. *Chambers's* Diction. ad vocem LEVITY. *Clarkii* Not. ad *Robault*. Phys. P. i. c. 10. § 11. Cor. 3.

Aff. *Aristoteles* cum suis Peripateticis. Physica vetus & nova, Qu. ix. Art. 10. p. 223.

27. Utr. Gravitas corporum sit (distantiis datis) in ratione quantitatum materiæ?

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Affirmant, qui in Quæstione præc. negant; & vicissim hic negant, qui illic affirmant.

28. *Utr.* Elementa in propriis locis gravitent?

Negant, qui varia Elementa tuentur. V. Qu. 6. Conf. *Eustach.* Phys. p. 211. *Cartes.* Princip. Phil. P. iv. § 27. V. infra Cap. vi.

29. *Utr.* Omnia corpora poris abundant?

Aff. *Le Grand* Instit. Philos. P. iv. c. 23. *Regnault's* Philos. Convers. Vol. I. p. 35. *Boyle* on the Porosity of Bodies; or, *Sharw's* Abridgment, Vol. I. p. 439. *Newtoni* Optic. P. iii. Prop. 8, p. 228. *Memoires de l'Academie*, A. D. 1713. p. 709. *Pemberton's* View of Sir *Isaac Newton's* Philosoph. B. iii. c. 2. p. 355.

Ambigi potest, utrum Philosophi, qui particulis primogeneis solidis patrocinentur, partem negativam hujusce Quæstionis non tueantur, V. supra Qu. 8.

30. *Utr.* Detur ignis elementaris? Sive, *Utr.* Ignis sit quiddam sui generis in corporibus contentum?

Aff.

Aff. Id prolixè & operâ parum utili probare aggreditur Dr. *Boerhaave* in *Elem. Chæmiæ*, 4to, Vol. I. a pag. 126, ad pag. 422. In eadem sententiâ stant plerique & Philosophis transmarinis. *Cartes.* Princ. P. iv. § 2. *Sturmii* Physiol. Elect. Tom. II. p. 97. *Stairii* Physiol. Nov. Expl. vi. S. 3. *Francisc. Bayle* Instit. Phys. Tom. I. P. i. L. i. S. i. Disp. 3. Art. 3. *Buddeus* in *Phil. Theoret.* P. iii. c. 2. § 4. *Hombërg* in *Essai du souffre Principe* in *Memoires de l'Academie*, Ann. 1705. *M. Lemery* in *Memoires de l'Acad.* Ann. 1713. Ib. 1709. *Regnault's* Philosoph. Conversat. V. I. p. 360. *Nieuwenty's* Relig. Philosoph. Vol. I. Contempl. xxi. S. 6. *Musschenbroek* *Elem. Phys. Mech.* P. ii. c. 12. p. 226. *Gravesande* *Elem. Phys.* 4to, P. iii. c. 1. *Jac. Ode* *Philos. Nat. Princ.* L. ii. S. 2. c. 1. p. 201. & P. ii. Sect. 1. c. 3. p. 82. *Fr. de Lanis* *Mag. Nat. & Art.* Tom. II. p. 13. *Eustach.* *Phys.* p. 225. *Robaulti* *Phys. R.* i. c. 27. § 15. & P. iii. c. 9. § 2. *Gassend.* *Philos. Epicuri*, p. 169.

Neg. Et in interno particularum motu ponunt omnes ad unum Philosophi nostrates. *Bacon* de forma calidi. *Boyle's* *Mechanical Product. of Heat and Cold*; or, *Shaw's* *Abridgment*, V. I. p. 550. The

sceptical Chymist; or, *Shaw's* Abridgment, V. III. p. 305. *Newt.* Opt. p. 318, 349. *Clarkii* Not. ad *Robault.* P. i. c. 2. § 15. Dr. *Shaw's* Notes to *Boerhaave's* Chemistry, p. 220. *Engl.* Ed. 4to. Si utriusque partis Hypotheses breviter explicatas videre lubet, adeas *Chambers's* Dictionary, ad vocem FIRE. I. Tom. I. Phys. Instit. P. i. c. 2. § 15.

31. *Utr.* Corpora calefacta amplificari debeant?

Aff. Et variis experimentis probat *Boerhaave* in *Elem. Chem.* 4to, V. I. p. 128. *Gravesande* *Elem. Math.* L. iii. c. 4. *Jac.* *Ode Philos. Nat. Princ.* V. I. p. 207. *Hist. Acad. Reg.* L. iii. S. 6. c. 1. § 4.

32. *Utr.* Quies sit quiddam positivum?

Aff. *Cartesj.* *Princ. Philos.* P. ii. § 27.

Neg. *Clerici* *Phys.* L. v. c. 5. *Malebranche's* Search after Truth, L. iv. c. 9. *Jac.* *Ode Philos. Natur.* L. ii. S. 1. c. 6. p. 114. *De Stair* *Phys. Exp.* p. 75. *Clau-berg.* *Disp. Phys.* 32. *Fr. Bayle* *Phys. Institut.* Tom. I. p. 96.

33. *Utr.* Detur absoluta quies in rerum naturâ?

Neg.

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Neg. *Musschenbroek* Elem. Phys. P. i. c. 7. § III. *Acta Erudit. Leipsiens.* A. D. 1695. p. 146. *Boerhaave* Elem. Chem. V. I. p. 398. *Boyle's Works* abridg'd by *Shaw*, V. I. p. 21.

34. *Utr.* Sympathia & Antipathia admittendæ sint in Rebus Physicis?

Aff. *Sir Kenelm Digby* de Natura Corporum, P. i. c. 8. p. 407.

Ambig. *Buddens* in Philof. Theor. P. v. c. 5. *Boyle's Works* abridg'd by *Shaw*, V. I. p. 85, 176.

Neg. *Omnes Newtoniani.*

Conf. *Chambers's Dictionary*, & *Dictionary Polygraph.* ad voc. SYMPATHETIC INK.

CAPUT II.

QUÆSTIONES AD NATURALEM
HISTORIAM SPECTANTES.

I. De MUNDO in genere.

I. UTRUM revera existat Mundus materialis?

Neg. Dr. *Berkley's* Treatise on the Principles of Human Knowledge, p. 59. His Dialogue between *Hylas* and *Philonous*. Minute Philosopher, V. I. Dial. vi. § 9. New Theory of Vision, § 43. *Collier's* Clavis Universalis.

Aff. *Locke's* Essay, B. iv. c. 2. § 14. c. 4, 11. His second Reply to Bishop *Stillingfleet*. *Regnault's* Philos. Convers. V. I. p. 18. Dr. *Green's* Princ. of Philosophy, 8vo, B. i. c. 1. *Franc. Bayle* Instit. Phil. Tom. I. P. i. p. 8. *Le Grand* Instit. Philos. P. iv. c. 2. *Norris's* Ideal World, P. i. c. 4.

Nihil dari extensum probare aggreditur *M. Bayle* Diction. Histor. & Crit. Artic. ZENO. Rem. F, G, J.

2. Utr.

2. *Utr.* Mundus fuerit ab æterno ?

I. Sunt, qui æternitatem tribuunt solummodo Materiæ, ex qua mundus conflatur. Hujus opinionis inventor existimatus est *Anaxagoras*. Vid. *Diog. Laert.* L. ii. n. 6. *Plutarch.* de Plac. Philos. L. i. c. 3. Totum *Anaxagoræ* Systema exposuit *P. Bayle* Diction. Hist. & Crit. ad vocem ANAXAGORAS ; & refellit *Cudworthus* in System. Intell. V. & apud eundem, *Moshemii* Dissert. de sensu istius axiomatis, *Ex nihilo nihil fit.*

Neg. *Henr. Mori* Opera Philos. P. i. c. 10. *Hales* Prim. Orig. of Mankind, c. 3. Universal History, V. I. p. 9. Dr. *Sam. Clarke's* Dem. of the Being and Attributes, Prop. iii. p. 23, 26. *Burnetti* Archæolog. L. ii. c. 1. *Stillingfleet's* Orig. Sacr. B. iii. c. 2. § 3, 10. *Law's* Notes to *King* on the Orig. of Evil, N. 12. Ed. 4to.

II. Alii volunt & materiam & formam mundi ab æterno existisse. *Aristotel.* de Cælo, L. i. c. 10. Phys. L. viii. c. 1---7. *Spinoza* Opera Posth. P. i. Prop. 3. & P. ii. Prop. 2. *Blount's* Orac. of Reason, p. 216.

Neg. *Bentley & Gastrel* in *Boyle's* Lectures. *Stillingfleet's* Orig. Sacr. B. iii. c. 2. § 11. Universal History, V. I. p. 3. *Jac.*
Ode

Ode Philos. Natur. L. i. S. i. c. i. *Parker* de Deo, Disputatio iv. *Wilkins's* Nat. Rel. B. i. c. 5. *Tillotson's* Sermons, V. I. S. i. *Cheyne's* Philos. Princ. c. 4. Dr. *S. Clarke's* Dem. of the Being and Attributes, l. c. p. 25. *Le Grand* Instit. Philos. P. v. c. 2. Et (qui instar omnium est) *Hale* in Prim. Orig. of Mankind, *per tot.* Qui plures vult consulere auctores, adeat *Fabricium* de Verit. Rel. Christianæ, p. 355.

3. *Utr.* Cosmogonia solvi possit ex mechanica rerum dispositione ?

E variis, quas excogitarunt Philosophi, Hypothesibus præcipua obtinuerunt loca, quæ sequuntur.

I. *Epicurei* omnia ad concursum atomorum fortuitum referebant. Vid. *Cic.* de Finibus, L. i. *Lucret.* L. ii. *Diog. Laertius* in Vita *Epicuri*; or, *Stanley's* Lives of the Philosophers, P. xiii. p. 572. *Plut.* de Plac. Phil. L. i. c. 4.

Neg. *Cudworth's* Intell. Syst. c. i. *Stillingfleet's* Orig. Sacr. L. iii. c. 2. § 14. *Universal History*, Intr. V. I. p. 20. *Ray* on the Creation, P. i. p. 34.

II. *Cartesius* omnia ex mechanica rerum dispositione derivat. *Cartes.* Medit. Metaph. & Princip. Philos. P. iii. *passim.* *Robaulti* Phys.

Phyf. P.vii. c. 21. *Stillingfleet's* Orig. Sacrae, B. iii. c. 2. § 18. Hypothefin hanc clare & breviter expositam videre erit in *Univ. History*, Introd. V. I. p. 35.

Neg. Ray on the Creation, P. i. p. 41. *Cudworth's* Intell. System, p. 603. *Boyle* on final Causes, Sect. 1. His Enquiry into the vulgar Notion of Nature, p. 77, 124. Reflections on Learning, by Mr. B. c. 7.

III. Proximum consecuta est locum & existimationem BURNETTI Hypothesis non sine multo ingenio conficta, in Theor. Telluris, L. i. c. 5. Archæol. L. ii. c. 3.

Eam refellunt, *Keil's* Exam. of *Burnet's* Theory, P. i. c. 2. Universal Hist. V. I. p. 36. *Warren's* Exceptions to *Burnet's* Theory.

IV. Denique WHISTONI Hypothesis famam cæteris haud minorem meruit & obtinuit. V. his New Theory of the Earth.

Hanc breviter expositam V. in Universal Hist. p. 38. & plane refutatam a *Keilio* in Remarks on Mr. *Whiston's* Theory, p. 140. and Defence of those Remarks, p. 311. second Edition.

Mosaicam Creationis Historiam explicatam vid. in *Nichols's* Conference with a Theist, V. I. P. i. Universal History, Introd. p. 41.

4. *Utr. Ordo mundi probet Deum?*

Aff. Dr. Bentley's Boyle's Lectures, Serm. vi, vii, viii. King de Orig. Mali, English'd, with Notes, by Mr. Law, c. 4. Parkeri de Deo, Disp. ii, v. Le Grand Institut. Phys. P. v. c. i. Stillingfleet's Orig. Sacra, B. iii. c. i. § 16.

Hanc materiam ex professo & summo cum ingenio tractarunt Ray on the Creation, and Physico-Theolog. Discourses; Dr. Derham's Physico-Theology, and Astro-Theol. Niewentyt's Religious Philosopher, 3 vol. Dr. H. More's Antidote against Atheism.

H. De ANIMALIBUS.

5. *Utr. Detur æquivoca generatio?*

Affirmârunt veteres *Ægyptii & Aristotelici*, ut literis proditum est in *Diodor. Plin. Ovid. Ælian. Mela. Cicer.* aliisque, quos legere & refutatos videre juvabit apud *Stillingfleet* Orig. Sacr. P. ii. B. i. c. i. Et huic opinioni adstipulari videtur Dr. *Plot* Hist. of *Staffordshire*, c. i. §. 47. Conf. *Lowthorp's* Abridgment of the Phil. Trans. V. H. p. 143, 144.

Negant

Negant omnes qui inter Philosophos melioris notæ censendi sunt. *Hale's* Originat. of Mankind, Sect. iii. c. 3, 7. *Etmulleri* Institut. Med. c. 23. *Lister* de Insect. p. 47. *Ray* on the Creation, P. ii. p. 344. *Stillingfleet* l. c. *Buddeus* de Philos. Theor. P. i. c. 1. § 17. *Franc. Rhedi* Exper. Natur. *Wollaston's* Religion of Nature, Sect. v. Prop. 15. p. 88. *Dr. Bentley's Boyle's* Lectures, Sermon. iv. *Boerhaave's* Elem. Chem. 4to, V. I. p. 489. Philosoph. Letters published by *Derham*, p. 261, 285. His Physico-Theol. B. iv. c. 15. Note a. *Harvei* Exercitat. 49, 50. *Watts's* Philos. Essays, p. 195. *Harris's* Lexic. Tech. V. II. ad vocem GENERATION.

6. *Utr. Omnia Animalia producantur ex ovo?*

Hæc quæstio priori opponitur, adeoque qui illic affirmant, hic negant. Itaque adeas auctores supra citatos.

Aff. Item *Boerhaave* Institut. Med. § 673. *Morgagni* Adv. 1. Tit. 3. *Harveus* de Generat. *Lewenboeck* in Epist.

Ambig. *Drake* in Anat. qui diversas auctorum sententias ad examen revocat.

7. *Utr. Producantur Animalia juxta leges mechanicas?*

Aff. Watts Philosoph. Essays, ix. p. 201.
Willis de Anim. Brut.

Neg. Universal History, V. I. Introd. p.
 43. Principium quoddam *Hylarchicum*
 (quod in Enchiridio Metaphysico vocat *Spi-*
ritum Naturæ) ulterius requirit *Hen. Morus*
 in Op. Philos. Fol. V. I. p. 26, 39, 219,
 611. Et vim *Plasticam* (quæ prorsus idem
 sonat) *Ray* on the Creation, P. i. p. 45.
 seqq. *Cudworth* Intellect. System, p. 603.
Morbofii Polyhist. Tom. II. L. ii. c. 19. p.
 285. *Andr. Rudigeri* Physica Divina, 4to.

Cum hac Quæstione cognationem habet
 altera :

8. *Utr.* Accrescant Animalia juxta leges
 mechanicas ?

Aff. Plerique recentiores. Consulantur
 libri supra citati ; quibus addas *Arbuthnot*
 on Aliments. *Albin.* de Ossibus, *Boer-*
haave Instit. Med. § 434, 480.

9. *Utr.* Mutua corporis & animæ actio
 solvi possit ?

Ad tria systemata revocari possunt viro-
 rum doctorum de hac re sententiæ.

Primum vocatur systema *Influxûs*, quod
 amplexi sunt *Cartesiani*. Vid. *Cartes.* de
 Homine.

Secun-

Secundum est systema *Adfistentiæ* seu *Causarum occasionalium* (ut loquuntur) in quo Deus immediate omnem motum efficere supponitur. V. *Buddei* *Isagoge*, Tom. I. p. 239, 274.

Tertium denique est systema *Harmoniæ præstabilitæ*, cujus inventor & auctor fuit *Leibnitzius*. Vid. *Essais de Theodic.* & *Papers betwixt Leibnitz and Clarke*. Eandem propugnavit sententiam *Christ. Wolfius* in *Luculenta Commentat. de systemate harmoniæ præstabilitæ*, Sect. ii. § 18. p. 57. seqq. Itemque *G. B. Bulfingerus* in *Commentat. de harmonia animi*. Huic opposuit *Langius* in *Causa Dei & Relig. Nat.* Sect. i. Argum. 1. §. 3. p. 102. Itemque in *Modesta Disquis.* c. 2. p. 67.

At omnibus rectius philosophantur, qui animam agere in corpus, & vicissim corpus in animam, & nihil de *modo* actionis statuunt, sed ignorantiam fatentur.

10. *Utr.* Admittenda sit præexistentia animæ humanæ?

Aff. Veteres *Pythagorici* & *Platonici*; quos acriter in hac re defendit *Henricus Morus* (vir doctus, sed sententiis *Platonicis* nimium addictus) *Oper. Philos.* Tom. II. p. 365. seqq. Et in *Poemat. Philosoph.* quæ vulgavit

gavit *Anglice Cantabr.* 1647, 8vo. Eadem propugnatur Hypothesis à *Rust.* *Lux Orientalis.* A Letter concerning *Origen* and his Opinions, printed in the *Phœnix.* *Sandius* de Orig. Animæ.

Neg. Dr. *Barrow*, qui *MORO* jam laudato responsum dedit. *Hale's* Primitive Origin. of Mankind. *Parker* on the Præ-existence of Souls. *Edward Warren's* No Præexistence.

11. *Utr.* Anima fit ex traduce?

Aff. *Tertullian*, & alii quidam e veteribus. Et e recentioribus, *Watts* Philos. Essays, ix. p. 201. *Thomasi* Dissertatio de Orig. Animæ Hum. *Planerus* de Animæ Hum. propagatione.

Neg. *Cartesiani*, & inter eos præcipue (qui in *Cartesii* verba nunquam non juraverit) *Ruardus Andala* Dissert. iv. animum à Deo, quoties generatur corpus, creari disputat. *G. Roetembeccii* Dissert. de Orig. Mentis Humanæ. *Wollaston's* Religion of Nature, Sect. v. p. 88.

Animas humanas ex *Anima Mundi* decerptas esse vetus est opinio, quam non ita pridem resuscitavit *Carolus Blount* in Libro cui titulus, *Anima Mundi.* Eam refellit *Cocceius* in Op. Tom. vi. Ep. 223.

12. *Utr.*

12. *Utr. Bruta cogitent?*

Aff. Mr. *Locke* on Hum. Underst. B. ii.

c. 11. *Buddei* Philos. Theor. P. ii. c. 1.

§ 8, 9. *Clarke's* Letters to *Dodwell*, passim; & quotquot materiæ capacitatem cogitandi detrahunt, V. infra Qu. *Utr. Materia possit cogitare?* *Neg.*

Neg. *Malebranche* de Veritate inquirend.

L. vi. *Willis* de Anim. Brut. *Jac. Ode*

Philos. Nat. Princ. V. II. p. 44. *Norris's*

Ideal World, P. ii. c. 2. *Le Grand Instit.*

Phil. P. vii. c. 18. *Cartesii* Epist. P. i.

Epp. 54, 67, 68, 69. Et P. ii. Ep. 10.

Philos. Burgund. T. ii. p. 1194. Bp. *Brown*

of the Extent and Limits of hum. Under-

standing, B. ii. c. 2. p. 158.

Nec prætereunda est veterum Philoso-

phorum Discrepantia de Brutorum animis.

Ea animâ cogitativâ prædita esse dogma re-

ceptum fuit ANAXAGORÆ & PYTHAGO-

RÆ. *Plutarch* de Plac. Philos. L. v. c. 20.

Contrarium prorsus docuit *Cicero* in Tusc.

Qu. L. i. c. 33. De Offic. L. i. c. 4. &

Seneca de Irâ, L. i. c. 3.

13. *Utr. Motus muscularis solvi possit mechanicè?*

Varias Hypotheses ad actionem Musculorum solvendam invenêrunt ingenia hominum,

num, qui de re Anatomicâ scripserunt.

I. Nonnulli elasticarum fibrarum, *i. e.* nervorum contractioni attribuunt. *Morgan's* Philos. Princip. of Medicine, P. ii. Prop. 4. p. 120. *Cowper's* Myotomy, cum Præfatione quam præmisit Dr. *Pemberton*. *Lower* de Corde. *Baglivi* de Fibra. *Wepfer* de Cicut. Aq. c. viii. p. 87. *Sennert*. Instit. Med. L. i. c. 15.

II. Alii intumescentiæ musculorum ope fermentationis sanguinis & spirituum animalium sive liquidi nervosi adscribendam esse volunt. *Keil's* Anatomy, c. ii. S. 1. p. 27. *Willis* de Anim. Brutorum. *Bernoulli* de Motu Muscul.

III. Nec contemnendæ sunt eorum Hypotheses, qui soli liquido nervoso tribuunt. *Boerhaave* Instit. Med. § 300---320. *Borelli* de Motu Animal. P. i. Dr. *Al. Stuart*, Phil. Trans. An. 1731.

Ambig. Dr. *Hales* Statics, V. ii. p. 58. Dr. *Cheyne's* Princ. of Phil. c. 6. p. 308.

Qui plura vult, adeat *Chambers's* Dict. or *Harris's* Lexic. ad vocem MUSCLE.

14. Utr. Detur liquidum nervosum?

Neg. Dr. *Cheyne* in *English* Malady, c. 1. qui in libro prius edito affirmaverit. Philosoph. Princ. of Relig. c. vi. § 35. p. 300.

300. & § 37. p. 308. *Wepfer* de Cicut. Ap. c. viii. *Morgan's* Philos. Princ. P. ii. p. 136. *Thomson's* Anat. S. 9. *Aff.* *Boerhaave*, *Keil*, *Willis*, *Borelli*, *Malebranche*, aliique loc. citat.

15. *Utr.* *Æthiopum* Nigredo solvatur ex causis naturalibus?

Aff. *Universal History*, Introd. V. I. p. 47. *Nicholls's* Conf. with a Theist. V. I. P. ii.

Qui plura vult, adeat *Malpighi* Op. aliosque Scriptores anatomicos de cute.

16. *Utr.* Effectus TARANTULÆ morsus solvi possint mechanicè?

Aff. *Mead* upon Poisons, p. 59. *Compendious System of Natural Philos.* P. ii. Dissert. i. p. 55. *Niewentyt's* Religious Philosopher, V. I. p. 29. *Chambers's* Dictionary ad voc. TARANTULA.

III. De VEGETABILIBUS.

17. *Utr.* Plantæ nascantur sponte & sine semine?

Neg. *Clerici* Phys. P. iv. c. 2. § 33. seqq. *Malpighi* Anatomia Plantarum. *Hamelius* in Hist. Acad. Reg. p. 309. *Tournefort* ibid. Eiusdem Instit. rei Herbariæ. Isagog.

p. 68. *Jac. Ode Philos. Nat. Tom. II. cii. 2. p. 50. Ray on the Creation, P. i. p. 125. Dr. More's Antidote against Atheism. B. ii. c. 6. Derham's Phys. Theol. B. x. p. 404.*

18. *Utr.* Integræ Plantæ contineantur in femine ?

Aff. Nieuwentyt's Relig. Philosopher, V. ii. Contempl. 23. p. 695. Regnault's Philosoph. Conversat. V. iii. Conv. i. p. 5. Memoires de l'Acad. Paris. 1701. p. 315. & 1707. p. 47. Buddeus de Philos. Theor. Po. ii. c. 2. § 20. Grew's Anatomy of Plants. Dr. Bentley's Boyle's Lectur. Serm. iv. p. 160. Bradley on Gardening. Quibus addantur auctores supra citati.

19. *Utr.* Detur analogia inter generationem nutrimentumque Plantarum & Animalium ?

Aff. Malpighi, Grew, Buddeus, aliique jam laudati. Analogiam hanc breviter expositam dedit Chambers Dictionary ad vocem PLANT. Add. Derham's Physico-Theol. B. x. p. 404. Shaw's Notes to Boerhaave's Chemistry, p. 142, 149. Dr. Hale's Veget. Staticks, c. 7. p. 318. Clerici Phys. L. iii. c. 1. 2.

20. *Utr.*

20. *Utr.* Plantæ sint Mares & Fœminæ?

Aff. Plerique in re Botanica versati. V. Bradley, Grew, Malpighi, Ray, &c. loc. cit.

21. *Utr.* Vegetabilium generatio & incrementum ex causis mechanicis solvi possint?

V. supra, Qu. 7.

22. *Utr.* Detur circulatio succi in vegetabilibus?

Aff. Boerhaave's Chemistry by Shaw, p. 144. Bradley Philos. Trans. N^o 349. M. Perrault Memoires de l'Acad. 1667. Malpighi Mem. de l'Acad. 1669. Regnault's Philos. Convers. V. iii. p. 19. Dr. Grew's Anat. of Plants. Dr. Lister, Philos. Trans. N^o 70.

Neg. Dr. Hale's Staticks, V. I. p. 134. V. II. p. 264, &c. Dr. Tong, M. Dodart & Switzer. Vid. Chambers Diction. ad VOC. CIRCULATION.

23. *Utr.* Vegetabilibus competat respiratio?

Aff. Derham's Phys. Theol. B. x. p. 406.

24. *Utr.* Aqua pura sit nutrimentum vegetabilium?

Neg. Et aquam, quâ nutriuntur plantæ, terrenis particulis imbutam esse contendunt, *Woodward* on Vegetation in Miscell. Curios. V. I. p. 203. *Boyle's* Sceptical Chymist, P. ii. *Jac.* Ode Philos. Nat. Princ. Tom. II. c. 2. p. 51. *Baconi* Sylva Sylvarum, Cent. v. § 411. *Niewentyt's* Relig. Philos. V. II. p. 467. *Helmonti* Opera, p. 65. Ea verò *experimenta crucis* videntur in hac quæstione, quæ probant non dari aquam puram & elementarem. Vid. infra Cap. vi. *Qu.*

IV. De REBUS TERRESTRIBUS.

25. *Utr.* Fossilia in Strata distribuuntur secundum specificas suas gravitates disposita?

Aff. *Derham's* Physico-Theol. B. iii. c. 2. Philosoph. Trans. N^o 336. *Woodward's* Nat. History of the Earth, p. 28. *Steno's* Prodromus, p. 74.

Neg. Dr. *Leigh's* Nat. Hist. of *Staffordshire*. Dr. *Lister's* Letter to Mr. *Ray*.

26. *Utr.* Conchæ in subterraneis partibus inventæ Diluvium universale probent?

Aff. Hanc Hypothesin *WOODWARDO* acceptam referamus, oportet. Natural History of the Earth, P. ii. or Philosoph. Trans.

Transf. N^o 217. p. 115. Cui suffragantur
Ray, Physico-Theolog. Discourses, P. iii.
Derham's Philosoph. Letters, p. 165. 196,
 235, 288. *Hook's* Post. Works, p. 279.
Dr. Delany's Revel. examin'd with Can-
 dour, V. I. Dissert. xi. Journal de Sça-
 vans, A.D. 1715. p. 19.

Neg. *Camerarius*, qui *Woodwardianam*
 Theoriam ad examen revocavit. Vid.
Chambers's Diction. ad vocem FOSSIL.

27. Utr. Fossilia ad imaginem anima-
 lium & vegetabilium formata sint Lusus
 Naturæ?

Neg. *Woodward*, *Derham*, *Hook* loc. cit.
 Add. *Shaw's* Abridgment of *Mr. Boyle's*
 Works, V. II. p. 167. V. III. p. 528.

Aff. *Dr. Lister*. Vid. *Mr. Ray's* Three
 Discourses, 8vo, Lond. 1695. p. 127.

28. Utr. Mineralia, Metalla & Lapides
 accrescant?

Aff. *Derham's* Physico-Theol. B. iii. c.
 2. p. 63. *Boyle's* Sceptical Chymist, p.
 360. or *Shaw's* Abridgment, V. I. p. 342.
 & V. III. p. 130---134. *Clerici* Phys.
 L. ii. c. 4, 5. *Tournefort* de Metallis.

Neg.

Neg. Woodward's Nat. History of the Earth, P. iv. Shaw's Notes to Boerhaave's Chemistry, p. 60.

29. *Utr.* Diluvium solvi possit mechanice?

Aff. Notissimæ sunt WHISTONI, & BURNETTI Theoriæ, quas vide. Easdem breviter & dilucide expositas legere juvabit in Universal Hist. V. I. p. 36. Vel in Chambers's Dictionary, ad vocem DE-LUGE.

Neg. Keil's Examination of the Theorists, Ed. 2d. Warren's Exceptions to Burnet's Theory. Reflections on Learning by Mr. B. p. 83. Stillingfleet's Orig. Sacræ, B. iii. c. 4. § 3. Witty on the Six Days Creation. Beaumont's Considerations on Burnet's Theory.

30. *Utr.* Ignēs subterranei & Terræ Motus oriantur ex fermentatione vaporum sulphure & nitro imbutorum?

Aff. Newtoni Optice in Quæst. sub finem, p. 326. Dr. Lister in Philosoph. Transact. N^o 157. Lowthorp's Abridgment of Philosoph. Transf. V. II. p. 120. Shaw's Abridgment of Boyle's Works, V. I. p. 641. Hook's Post. Works, p. 279. Philosoph.

Philos. Conversat. V. II. p. 67. *Clerici*
 Physica, L. ii. c. 3.

Neg. Et igni cuidam subterraneo attribuit *Woodwardus*. Natural History of the Earth, P. iii. p. 151. seqq.

Variae fuerunt veterum Philosophorum Hypotheses de Terræ motibus, quas vix opus est recensere. Cui cognoscere eas libet, adeat *Plutarch.* de Plac. Philos. L. iii. c. 15. *Plin.* Nat. Hist. L. ii. c. 79. *Senec.* Qu. Natur. L. vi. c. 6, 10. *Sturmii* Philos. Elect. Tom. I. Exerc. xi. c. 5. Qui plura vult, consulat *Jac.* Ode Philos. Nat. Princ. Tom. II. c. 3. p. 76. Vel *Chambers's* Dictionary, ad vocem EARTHQUAKE. Vid. infra Questionem de Tonitru & Fulgure, c. 4.

31. Utr. Fontes oriantur e mari?

Aff. *Le Grand* Instit. Philos. P. vi. c. 7. *Varenii* Geogr. L. i. c. 16. Prop. v. p. 203. *Hook's* Microgr. p. 25. *Robault's* Phys. p. 3. c. 10. *Clerici* Physica, L. ii. c. 7. *Plin.* Nat. H. L. ii. c. 97. *Honor. Fabri* Phys. Tract. vi. L. iii. Prop. 110. *Kircheri* Mund. subterr. L. iii. Sect. ii. c. 8. *Bocco* in Act. Erud. Suppl. Tom. III. p. 197. *Cartes* Princ. Phil. p. 4. § 64. *Clau-bergii* Disp. Phys. 24. *Andala* Phys. P. iv. Exerc. 11. *Michelottus* in Append. ad *J. Bernoulli*

Bernoulli de Effervesc. *Gulielmini* della Natura de Fiumi.

Neg. De la Hire, Memoires de l'Acad. 1703. p. 60. 1713. p. 56. *Sideleau* Memoires de l'Acad. 1693. p. 321.

Sunt, qui ex imbris & solutis nivibus derivant. *Perrault* Memoires de l'Acad. *Marriotte's* Hydrostaticks english'd by Dr. *Desaguliers*, P. i. Disc. ii. p. 13. *Caspar. Bartholini* Differt. de Orig. Font. quæ recensetur in Act. Erud. Tom. II. Supplem. p. 539---542. *Hamelii* Hist. Acad. Reg. p. 321. *Niewentyt's* Religious Philos. V. II. Contempl. xix. § 45.

Nonnulli utrique causæ fontes attribuunt. *Regnault's* Philosoph. Convers. V. II. p. 111. *Philos. Burgund.* Tom. II. p. 1016. *Buddei* Philos. Theor. P. iii. c. i. *Dale's* History of *Harwich*, p. 332.

Woodwardus fontes ex visceribus telluris, & aquarum abyssu ibidem reposita (ope subterranei ignis) repetit. Natural Hist. of the Earth, P. iii. S. i.

Hodie vero receptissima est HALLEI Hypothesis, qui eos a vaporibus ut plurimum derivat. Vid. Misc. Curios. V. I. p. i. *Lowthorp's* Abridgment of Philosoph. Transf. V. II. p. 108, 126, 192, 298, 305, 329, 351. Philosoph. Transf. N^o 119,

119, 189, 192, 384, 424. Dr. *Hale's* Statistical Essays, V. I. p. 56. V. II. p. 257. Meteorological Essays, Treat. i. *Boerhaave's* Chem. Elem. 4to. Tom. I. p. 473. Compendious System of Nat. Philos. P. ii. Dissert. iii. *Harris's* Lexicon, and *Chambers's* Dictionary, ad vocem SPRING.

32. *Utr.* Thermarum seu Fontium calidorum generatio ab igne subterraneo derivetur?

Aff. *Woodward's* Natural Hist. of the Earth, P. iii. S. i.

Neg. Et admittioni sulphurearum particularum attribuunt *Varenius* in Geogr. Gen. L. i. c. 17. Prop. 7. p. 196. *Jac. Ode* Philos. Nat. Princ. Tom. II. p. 51. *Philos. Burgund.* Tom. II. p. 1021.

33. *Utr.* Aquarum mineralium generatio recte explicetur à VARENIO?

Aff. *Varen.* Geogr. Gen. L. i. c. 17. Dr. *Shaw's* New Experiments on Mineral Waters. Philos. Transact. N^o 137. p. 247. N^o 351. p. 564. N^o 49, 111. p. 234. *Kircheri* Mund. subterr. Tom. I. Sect. ii. c. 3. *Boyle's* Nat. History of Mineral Waters; or, *Shaw's* Abridgment, V. III. p.

495. seqq. *Jac. Ode Phil. Nat. Tom. II.*
P. 71.

34. *Utr. Lacuum generatio & conserva-
 tio recte exponatur à VARENIO?*

Aff. Varen. Geogr. Gen. L. i. c. 15.
p. 144.

35. *Utr. Fluviorum origo vera affigne-
 tur à VARENIO?*

*Aff. Varen. Gen. L. i. c. 16. Niew-
 enty's Relig. Philos. V. II. Contempl.*
xix. § 45. Chambers, ad VOC. RIVER.

36. *Utr. Inundationis Nili vera causa
 explicetur à SENECA?*

Aff. Senecæ Nat. Qu. L. iv. c. 2. Vol.
II. p. 747.

Neg. Varenii Geogr. L. i. c. 16. Prop.
20. Salmon's Modern Hist. Vol. V. p. 10.
Boyle's Works abridg'd by Shaw, V. I. p.
433. Universal History, V. I. p. 180.

37. *Utr. Insulæ dentur, quæ mari in-
 natant?*

*Aff. E veteribus plurimi: ut, Thales, Se-
 neca, Plinius, &c. & e recentioribus, Boe-
 thius in Historia Scotiae, & Varenius in*
Geogr. Gen. L. i. c. 18. Prop. 14.

38. *Utr.* Aquarum marinarum falsedinis causa vera assignetur ab HALLEIO?

Aff. Philos. Transact. N^o 344. *Varenii* Geogr. L. i. c. 13. Prop. 8, 9, 10.

39. *Utr.* Aqua marina ab arte reddi potest dulcis?

Aff. *Buddeus* in Philos. Theoret. P. i. c. 1. § 38. *Boyle* on the Saltness of the Sea; or, *Shaw's* Abridgment, V. I. p. 597.

40. *Utr.* Aquæ marinæ gravitas specifica debeat esse pluviali major?

Aff. *Varenii* Geogr. Gen. L. i. c. 13. Prop. 12. *Lowthorp's* Abridgment of Philos. Transact. V. II. p. 297.

41. *Utr.* Frigus oriatur ex mera partium quiete?

Affirmant; Qui ignem elementarem tuentur. V. supra, Cap. 1. Qu. 30. & speciatim *Jac. Ode* Philos. Nat. Princ. Tom. I. p. 209.

Negant, Et particulas quasdam frigorigas (forte nitrosas) requirunt *Gassendus*, Philos. Tom. I. p. 172. *Boyle's* Hist. of Cold; or, *Shaw's* Abridgment, V. I. p. 530. *Cheyne's* Philos. Princ. p. 61. *Bud-*

deus de Phil. Theor. P. v. c. 4. § 16.
Stairius Phys. Nov. Expl. 16. N. 22.

42. *Utr.* Aquæ congelatio ex merâ ignis
 privatione solvatur?

Aff. Cartesiani.

Neg. Philos. Transact. A. D. 1666. p.
 196. Compend. Syst. of Nat. Phil. P. ii.
 c. II. § 2. Note. *Marriotte's* Hydrostat.
 p. 12. *Musschenbroek* Elem. Phys. p. 222.
 § 803, 804. L'Histoire de l'Acad. 1712.
 p. 27. *Boyle's* Works abridg'd by *Shaw*,
 V. I. p. 210, 478, 716. V. Singulorum
 Hypotheses clare expositas in *Chambers's*
 Dict. ad voc. FREEZING.

43. *Utr.* Aqua congelata dilatari & ra-
 refieri debeat?

Aff. *Boyle's* Works abridg'd by *Shaw*,
 V. I. p. 615. *Robaulti* Phys. P. i. c. 23.
 § 35. *Hale's* Statical Essays, V. II. p.
 277. *Jac.* Ode. Philos. Nat. Tom. I. p.
 219. *Boerhaave* Elem. Chem. Tom. I.
 p. 621. Compendious Syst. of Nat. Phil.
 P. ii. c. I. § 2. Not. 3. *Chambers* ubi
 supra.

44. *Utr.* Aqua in fluminibus juxta fun-
 dum sit prius congelata?

Aff.

Aff. Dr. *Hale's* Statical Essays, V. II. p. 355. Dr. *Plot's* Hist. of *Oxfordshire*. *Boyle's* Works abridg'd by *Shaw*, V. I. p. 643.

45. *Utr.* Lachrymarum vitrearum Phænomena solvantur ex naturali effectu caloris & frigoris?

Aff. *Sturmii* Colleg. Curios. P. II. Tent. vi. § 10. *Jac.* Ode Philos. Nat. Princ. Tom. I. p. 77. *Robaulti* Phys. P. i. c. 22. § 47. *Worster's* Princ. of Philos. p. 162. *Regnault's* Philosoph. Convers. V. I. p. 346. *Hook's* Microgr. Obs. vii. *Homburg* Histoire de l'Acad. L. iv. S. i. c. 1.

46. *Utr.* Magnetis Phænomena solvantur ex principiis mechanicis?

Aff. *Cartesj.* Princ. P. iv. § 133, &c. *Philos. Burgund.* T. II. P. 1093. *Le Grand* Instit. Philos. P. vi. c. 10. *Bernoulli* de Gravit. Ætheris, p. 2. *Robault's* Phys. P. iii. c. 8. *Sturmii* Philos. Elect. Tom. I. p. 468. & Tom. II. p. 1109. *Andala*, P. iv. Exerc. 16. § 25. *Philos. Convers.* by *Regnault*, V. I. p. 196. *Hook's* Post. Works, p. 364.

Solutionem prorsus novam & è proprio ingenio depromptam coram Regiâ Societate pro-

proposuit HALLEIUS, Philos. Transact. N^o 148. *Lowthorpe's* Abridgment, V. II. p. 610. *Miscellanea Curiosa*, V. I. p. 43.

Neg. Newtoni Princip. Math. L. ii. Schol. ad Prop. xxiii. *Musschenbroek* Phys. Exper. de Magnete, 4to. & Elem. Phys. § 573.

Varia magnetis Phænomena necnon & diversas eorum solutiones expositas vid. apud *Cleric.* in Phys. L. ii. c. 6. Conf. *Hawksbee's* Physico-Mech. Exp. p. 322. *Jac.* Ode Philos. Nat. Tom. II. c. 3. p. 95. seqq. *Whiston's* Doctrine of the Magnet. *Kircheri* Ars Magnetica. *Chambers's* Dictionary, ad vocem MAGNET.

47. Utr. Corporum Electricorum Phænomena ex mechanicis principiis solvi possint?

Cartesiani primo Elemento attribuunt. *Cartes.* Princip. P. iv. § 184. Vid. supra, C. I. Qu. 6.

Newtoniani Vi Attractici. *Keilii* Ep. de Leg. Attract. Theorem. 30. vel in Oper. 4to, p. 635. *Newtoni* Optic. in Qu. sub finem. *Desaguliers's* Exper. Philos. p. 17, 21. *Worster's* Princ. of Phil. p. 29. *Gravesande* El. Math. L. iii. c. 2.

Bernoulli

Bernoulli ætheri cuidam ignoto. De Gravit. Ætheris, p. 23. Quiddam huic simile innuere videtur *Newtonus* in Princ. Math. pag. ult. & in Opt. Qu. 18. seqq.

Sunt, qui effluviis corporis electrici & rarefactioni aëris adscribenda esse volunt; ut *Gassendus*, *Gilbert*, *Digby*. Vid. *Chambers's Dictionary*, ad vocem ELECTRICITY.

Varia Electricitatis Phænomena, vid. apud *Boyle*. *Shaw's Abridgment*, V. I. p. 397---510. *Hawksbee's Physico-Mechanical Experiments*, p. 139. *Compendious Syst. of Nat. Phil.* P. I. c. 3.

Plurima nova Phænomena (quæ notis hodiernæ Philosophiæ legibus vix subjici possint) invenit *Steph. Gray*, *Philosoph. Transact.* N^o 417. or *Desaguliers's Exper. Philos.* V. II. p. 450.

48. *Utr.* Corporum Elasticitas solvatur ab attractione & repulsione?

Neg. Ope materiæ subtilis solvunt *Cartesiani*. *Robaulti Physica*, P. i. c. 22. §. 37. *Clerici Physf.* L. v. c. 17. *Philosf. Burgundia*, Tom. II. p. 805. *Cartesf. Epist.* 23, 94. *Franc. de Lanis*, *Mag. Nat. & Art.* Tom. II. L. vi. c. 2. Prop. 9. V. supra, Cap. I. Qu. 10.

Aff.

Aff. Newton. Optic. p. 338. Sturm.
Phys. Elect. Tom. I. p. 331. Cheyne's
Philos. Princ. p. 107. Gravesande Elem.
Math. L. i. c. 5. p. 12. Musschenbroek
Elem. § 396. Jac. Ode Philos. Nat. Princ.
Tom. I. p. 70. V. supra, Cap. I. Qu.
20, 21.

Varia Elasticitatis Phænomena, vid. in
Shaw's Abridgment of Boyle's Works, V. I.
p. 492. V. II. p. 125, 488.

Diversas de Elasticitate Hypotheses nobis
 exhibet *Chambers's Dictionary*, ad vocem
 ELASTICITY.

CAPUT III.

QUÆSTIONES CHemicÆ.

UTRUM quinque sint Chemicorum Elementa?

Quidam cum *Paracelso* tria fingunt Principia vel Elementa; alii his duo addunt & conficiunt quinque, viz. Salem, Sulphurem, Mercurium, Aquam vel Phlegma, & Terram vel Caput mortuum, e quibus omnia corpora, utcunque mixta, componuntur, & in quæ ab arte Chemicâ resolvi possunt. Vid. *Chambers's Dict.* ad voc. ELEMENT. *Freind's Pælect. Chym.* p. 2. *Jac. Ode Philos. Nat.* P. i. S. I. c. 4. p. 56. *Rohaulti Phys.* P. i. c. 20. *Glerici Phys. L.* 5. c. 1. § 15. *Philos. Vetus & Nova*, Tom. III. Tract. i. Disp. 3. Qu. 5.

At celeberrimi inter recentiores de re Chemicâ scriptores negant corpora in principia sua posse resolvi, adeoque nihil omnino de Elementis a nobis intellectum esse contendunt. *Boyle's Sceptical Chymist*, and *Production of Chymical Principles*. *Shaw's Abridgment*, V. I. p. 267. V. II. p. 123.

& V. III. p. 261, 299. *Boerhaave's Chemistry*, with *Shaw's Notes*, p. 175. *Homburg's Memoires de l'Acad. Roy. A. D. 1702.*

2. *Utr. Detur Menstruum universale?*

Neg. Boerhaave Elem. Chem. V. I. p. 848. Buddæi Philos. Theor. P. ii. c. 3. § 7.

3. *Utr. Aurum arte Chemica ex quibusvis aliis metallis confici possit? Sive,*

Utr. Dari possit Mercurius Philosophicus?

Neg. Le Grand Institut. Philos. P. vi. c. 8. Boerhaave & Buddæus in loc. cit. Boyle's Works abridg'd by Shaw, V. I. p. 372, 381, 456. V. III. p. 408.

Fuerunt, qui eum esse inventum jactarunt, quos vid. apud *Sturm. Philos. Elect. Tom. II. p. 426.* Mira de ejus effectibus fabulatur *Wedehus* in *Act Erudit. Lipsiens. A. D. 1707. p. 408.*

4. *Utr. Dari possit Metallorum transmutatio?*

Aff. Boyle in Shaw's Abridgment, V. I. p. 166, 207, 267, 382. V. III. p. 438.

* Anglicè, *The Philosopher's Stone.*

Homburg

Houberg. Memoires de l'Acad. 1709. p. 139, 143. *Gassendi* Opera, Tom. II. p. 135.

Neg. *Ray* on the Creation, P. i. p. 113. Conf. libros supra citatos.

5. *Utr.* Solidorum dissolutio in men-
struis solvatur ab attractione?

Aff. *Freind* Prælect. Chym. L. vi. p. 88. *Boerhaave* Elem. Chem. V. I. p. 699, &c. *Shaw's English* Edition of it, p. 342. *Boyle's Works* abridg'd by *Shaw*, V. I. p. 301. V. II. p. 472. *Joan. Keil* de Leg. Attract. Epistola sub fin. vel in Operibus, 4to, p. 633. *Newtoni* Optic. Qu. 23. p. 322. *Molineux* in Miscell. Curios. V. II. p. 300. vel in Philos. Transact. N^o 181. vel in *Lowtharp's* Abridg. V. I. p. 535. *Clarkii* Not. ad *Robault*. Phys. P. i. c. 22. § 9, 17.

6. *Utr.* Corpusculorum Innatatio in men-
struis specificè levioribus solvatur ab at-
tractione?

Conf. Auctores supra citati.

7. *Utr.* Fermentatio in menstruis sol-
vatur a legibus attractionis & repulsionis?

Aff. *Dr. Freind* Prælect. Chym. L. v. p. 60. *Boyle's Works* abridg'd by *Shaw*, V.

III. p. 213. *Newtoni Opt. Qu. ult. p.*
339.

8. *Utr. CrySTALLIZATIO solvatur a legibus attractionis?*

Aff. Dr. Freind Præl. Chymicæ, L. viii. Shaw's Abridgment of Boyle, V. I. p. 46, 243. V. III. p. 133.

9. *Utr. Distillatio, five Evaporatio, solvatur a specificæ gravitatis ratione?*

Aff. Dr. Freind Præl. Chym. L. iii. p. 31. Jac. Ode Philos. Nat. Tom. II. p. 157. Probl. 6. Hamelii Histor. Acad. Reg. p. 437. Niewentyt's Relig. Philos. Contempl. 19. S. 17, 18. Boerhaave Elem. Chem. Tom. I. p. 479. Boyle's Works abridg'd by Shaw, V. I. p. 46, 386. V. III. p. 278.

10. *Utr. Animalium & vegetabilium Petrificatio solvatur ex Legibus Naturæ?*

Aff. Varen. Geogr. Gener. L. i. c. 17. Prop. 17. Bacon's Works abridg'd by Shaw, V. III. p. 561, 571. Lowthorp's Abridgment of Philos. Transactions, V. II. p. 321, 325. Sen. Nat. Qu. L. iii. c. 20. Hook's Post. Works, p. 281. Robaulti Phys. P. iii. c. 10. § 13. Plin. Nat. Hist. L.

L. ii. c. 103. *Gassendi Opera*, Tom. II.

L. iii. c. 3. p. 119. *Chambers's Dict. ad*

VOC. PETRIFICATION.

11. *Utr. Aqua in terram, & vicissim
terra in aquam possit converti?*

Aff. Boerhaave Elem. Chem. V. I. p.

627. *Shaw's Abridgment of Boyle, V. I.*

p. 265, 269. V. III. p. 417—421.

CAPUT. IV.

QUÆSTIONES METEOROLOGICÆ.

1. **U**TRUM Generalis Ventorum
causa solvatur ex rotatione tellu-
ris circa axem?

Aff. Cartes. de Meteor. c. 4. § 2. Fr. Bayle Institut. Phys. Tom. II. p. 508. Sturmii Mod. Phys. Part. ii. S. I. c. 6. § 5. Marriotte de motu aëris, p. 50. & Le Grand Instit. Philos. P. vi. c. 14.

Neg. Philosophi recentiores, qui rarefactioni a Solis calore attribuunt. Varen. Geogr. Gen. L. i. c. 20. Pr. 10. Jac. Ode Phil. Natur. Princ. Tom. II. p. 161. Gravesande Elem. L. iii. c. 4. Wolfii Elem. Math Univ. Tom. II. p. 660. Buddei Philos. Theor. P. iii. c. 3. §. 22.

2. *Utr. Ventorum intra Tropicos spirantium causa vera assignetur ab HALLEIO?*

Aff. Hypothesin Halleii vid. in Miscell. Cur. V. I. p. 61. Conf. Gordon's Account, in Philos. Transf. N^o 17. or, Lowthorp's Abridgment, V. II. p. 129. Lister in Philos. Transf. N^o 156. or, Lowthorp's Abridgment,

ment, V. II. p. 129. *Baconi* Historia ventorum; or *Shaw's* Abridgment, V. III. p. 441--500. *Varenii* Geogr. Gener. L. i. c. 21. *Marriott's* Hydrostat. p. 25. *Chambers's* Dictionary, ad vocem WIND.

Neg. Robaulti Phys. P. iii. c. 11. *Jos. Acoftæ* Hist. Ind. Occid. L. iii. c. 4. *Clerici* Phys. L. iii. c. 5. *Franc. Bayle* Instit. Phys. Tom. II. p. 491, 495. *Becmanni* Hist. Orbis Terr. p. 17. *Kircher. Mund. subterr.* Tom. I. L. iv. p. 194. *Riccioli* Almag. Nov. L. ix. p. 328. *Sturmi* Phys. Mod. P. iii. S. i. c. 6.

3. *Utr. Auroræ Borealis Phænomena adhuc solvantur?*

Aff. Halleus solutionem reddit ex materiâ quâdam subtili & lucidâ a terrâ ad superiores atmosphæræ partes evectâ. *Philos. Transf. N° 310, 347, 376.* or, *Jones's* Abridgment, V. IV. p. 135. *Conf. Philos. Conversat. V. III. p. 139.* *Hook's* Post. Works, p. 193. *Boyle's* Works abridg'd by *Shaw*, V. III. p. 61. *Whiston's* Treatise of the Aurora Borealis of 1715-6.

Nuper in publicum prodiit alia solutio petita ex commisturâ Atmosphæræ solaris cum terrestri. *Traite Physique et Historique de l'Aurore Boreale, par M. de Mairan.* *Philosoph. Transf. N° 431.* 4. *Utr.*

4. *Utr.* Parheliorum, Paraselenarum, Halonum, & ejusmodi Meteorôn Phænomena solvi possint?

Aff. *Newtoni* Opt. p. 147. *Philos. Convers.* by *Regnault*, V. II. p. 389. *Jac.* *Ode Phil. Natur.* Tom. II. p. 169, 172. *Cartes.* de Meteoris, c. 10. § 1. *Cartesium* refellit *Sturmius* in *Phys. Elect.* Tom II. p. 1339, 1356. *Gassendi* Epistola de Parheliis, quæ extat in *Oper.* Tom. II. p. 91. *Shaw's* *Abrigment of Boyle*, V. II. p. 656. V. III. p. 59. *Clerici Physica*, L. iii. c. 3. *Lewthorp's* *Abridgment*, V. II. p. 189. *Hugenii* *Opera* *Posth.* *Hook's* *Post. Works*, p. 364. *Chambers's* *Diction.* ad voces HALO, PARHELIUM.

Quæstiones de Iride vid. *infra*, C. 8.

5. *Utr.* Ignis fatuus sit Meteoron?

Aff. *Jac.* *Ode Phil.* *Nat.* Tom. II. p. 185. *Anton. Le Grand Hist. Nat.* P. iv. Art. 10. § 9. *Boyle's Works* by *Shaw*, V. II. p. 400. *Newtoni* Opt. Qu. 10.

6. *Utr.* Tonitru & Fulgur oriantur ex fermentatione vaporum Sulphure & Nitro imbutorum?

Aff.

Aff. *Newtoni* Optic. p. 376. Hypothesin copiosè & accuratè exposuit *Wallisius*, Miscellan. Curios. V. II. p. 315. Philosoph. Transact. N^o 231. p. 655. *Lowthorp's* Abridgment. V. II. p. 182. & V. IV. p. 126. *Boërhaavé's* Elem. Chem. V. I. p. 477. *Buddéi* Philos. Theor. *Hooke's* Post. Works, p. 59, 169, 424. *Harris's* Lexic. V. II. & *Chambers's* Dict. ad voc. THUNDER.

Neg. Tonitrûs fragorem excitatum esse a nubibus in se invicem magno impetu ruentibus tradunt *Cartesiani*. *Cartesj* Meteor. c. 7, 8. *Robaulti* Phys. P. iii. c. 16. *Clerici* Phys. L. iii. c. 4. *Regnault's* Philos. Convers. V. III. p. 120. *Fromondi* Meteor. L. ii c. 3. Art. 10, 11. *Mori* Enchir. Metaph. c. 23. *Schotti* Phys. Cur. L. xi. c. 21. § 5. *Le Grand* Phys. Instit. P. vi. c. 23. *Chauvini* Lexicon Philosoph. ad voc. TONITRU.

Veterum Philosophorum sententias exponunt *Aristoteles* de Meteor. L. ii. c. 9. *Seneca* in Nat. Qu. L. 2. c. 18, 20. *Plutarchus* de Plac. Philos. L. iii. c. 3. *Plinius* in Hist. Nat. L. ii. c. 43.

Varios & mirandos fulminis effectus tradunt *Plutarch.* Sympos. L. iv. Qu. 2. *Seneca* Qu. Nat. L. ii. c. 31. *Plin.* Nat. Hist.

Hist. L. ii. c. 31. & L. xxxv. c. 15.
Boyle's Works abridg'd by *Shaw*, V. I. p.
 88, 421, 475. V. III. p. 32, 41, 70.
Philos. Transact. A. D. 1666. *Hartnacci*
Admir. Phys. p. 316. *Fac. Ode Philos.*
Nat. Tom. II. p. 189. *Gassendi Op. Tom.*
II. L. ii. c. 4. p. 85. *Hale's Stat. V. I.*
 p. 261.

7. *Utr. Pluviae, nivis & grandinis causæ*
generales explicari possint?

Aff. Varen. Geograph. Gen. L. i. c. 19.
Boerhaave Chem. Elem. Tom. I. p. 473,
 476. *Lowthorp's Abridg. V. II.* p. 146,
 148, 441. *Fac. Ode Philos. Nat. P. ii.*
 p. 178. *Wallis's Letter in Miscell. Cur.*
V. II. Meteorological Essays, Ch. 2. p.
 39. *Philos. Burgund. Tom. II.* p. 1051.
Cartes. Meteor. c. 6. Robaulti Phys. P.
iii. c. 14. Franc. Bayle Instit. Phys. Tom.
II. p. 473. Sturmii Phys. Elect. Tom. II.
 p. 1235. *Boyle's Exper. on Cold. Shaw's*
Abridgm. Vol. I. p. 696. *Gassendi Op.*
Tom. II. L. ii. c. 2, 3. Chambers's Dict.
 ad VOC. RAIN, SNOW, HAIL.

CAPUT V.

QUÆSTIONES MECHANICÆ.

I. **U**TRUM detur Motus in rerum naturâ?

Negarunt quidam e veteribus, ut *Diodorus* & *Zeno*, quorum argumenta, non sine multâ subtilitate & ornatu, proposuit *Pet. Bayle* *Histor. & Critic. Dictionary*, Art. *ZENO*.

Eadem serîo refellunt *Keil*. *Introd. ad Physic. L. vi. p. 61.* His *Examination of Burnet's Theory*, p. 2. *Jac. Ode Philos. Natur. Tom. I. c. 6. p. 83.* *Cartes. Epist. P. i. Ep. 118.* *Sturmii Phys. Elect. Tom. I. S. 3. c. 16.* *Gassendi Op. L. v. c. 1.*

2. *Utr. Motus sit æternus?*

Aff. Aristot. de Cælo, L. i. c. 10. & Phys. L. viii. c. 1. *Hobbs Physic. c. 26.* *Spinos. Op. Post. P. i. Prop. 3. & P. ii. Prop. 2, & 13. Lemma 3.* *Ocellus Lucan. Cap. 1.* *Blount's Oracl. of Reason, p. 210.* *Toland, Letter iii.*

Neg. Bentley's Boyle's Lectures, Serm. vi. Dr. Sam. Clarke on the Being and Attrib. of God, Prop. iii. p. 25, 31. Jac. Ode Philos. Nat. Tom. I. c. 6. p. 84. Cheyne's Philos. Princ. of Relig. Ch. 3. § 4. Burgund. Philos. Tom. II. p. 788. Cudworth's Intellect. System, p. 843. S. Collier's Impart. Enquiry, c. 7. Seth Ward on the Being and Attrib. p. 25. V. supra, Cap. 2. Qu. 2.

3. *Utr.* Deus solus sit auctor & conservator motûs?

Aff. Cartesius, & qui eum sequuntur. Jac. Ode Nat. Philos. Tom. I. c. 6. p. 85. Cartes. Princ. P. ii. § 36.

Neg. Aristoteles corpus motum ab aëre retro pelli existimat; & recentiores quidam ad aëris elaterium confugiunt. De Chales de Elater. Aëris.

Vim impressam manere docent melioris notæ Philosophi. Newtoni Princ. Math. L. i. S. I. Philosoph. Burgund. Tom. II. p. 792. Chambers's Diction. ad vocem MOTION. Keil. Introd. ad Phys. Lect. II, 12. Aliique qui leges motûs Newtonianas exponunt, V. infra, Qu. 8.

4. *Utr.*

4. *Utr.* Distinguendus sit motus absolutus a relativo?

Aff. *Newtoni* Princ. Math. p. 6. *Keil.* Introd. ad Phys. Lect. 7. *Gravesande* Elem. Phys. L. i. c. 6.

Sunt, qui negant distinctionem admitti debere. *Law* on the Ideas of Space, Time, &c. c. i. p. 71. *Chauvin.* Lexic. Philos. ad voc. *Motus localis.* *Leibnitz* 5th Letter to *Clarke*, p. 295. *Elementa Logicæ*, P. ii. c. 2. S. 6. § 3.

5. *Utr.* Quies sit quiddam positivum?
V. supra, Cap. i. Qu. 32.

6. *Utr.* Detur absoluta Quies in rerum naturâ?

V. supra, Cap. i. Qu. 33.

7. *Utr.* Eadem semper sit motûs quantitas in rerum naturâ?

Aff. *Cartes.* Princ. P. ii § 36. *Franc.* *Bayle* Philos. Institut. Tom. I. p. 104. *Andalæ* Exercitat. Acad. P. ii. Exerc. 12. § 14, 21.

Neg. *Newtoni* Optic. Qu. ult. p. 341. *Keil.* Introd. ad Phys. L. xiii. p. 157. *Jac.* *Ode.* Philos. Nat. Tom. I. c. 6. p. 107. *Hugenii*

Hugenii Op. Posth. p. 378. *Philos. Burgund.* Tom. II. p. 794. *Senguerd.* *Philos. Nat.* P. i. c. 5. § 20. *Acta eruditorum Lippens.* A. D. 1686. p. 161. *Gravesande Elem. Phys.* L. i. c. 21. *Exper.* 12, 13. *Chambers's* Diction. ad vocem MOTION.

8. *Utr.* Admittendæ sint NEWTONI tres leges Naturæ?

Aff. *Newtoni* Princ. Math. L. i. S. I. *Keil.* Introd. ad Phys. L. xi, xii. *Gravesande Elem. Math.* L. i. c. 16. *Domckii* *Philos. Newton.* Tom. II. p. 15. *Compendious System of Nat. Philos.* P. i. c. 4. *Desaguliers's* Course of Exper. *Philos.* V. I. Lect. 5. p. 284. *Cheyne's* *Phil. Princ.* c. 1. *Worster's* *Philos.* p. 45.

Neg. Dr. *Green's* Princ. of *Philos.* B. ii. c. 1. & diversas prorsus naturæ leges instituit *Cartesius* Princ. P. ii. § 37. seqq. Quas aut inutiles aut falsas esse ostenditur in *Philos. Burgund.* Tom. II. p. 796. *Keil's* Examination of *Burnet's* Theory, p. 10.

9. *Utr.* Corpus viribus conjunctis diagonalem parallelogrammi eodem tempore describere debeat, quo latera separatis?

Aff.

Aff. Newtoni Princ. Math. p. 14.
Domckii Philos. Newton. Tom. II. p. 16.
 cum auctoribus supra laudatis.

10. *Utr.* Summa vel differentia motuum in corporibus non elasticis sibi mutuo impingentibus eadem maneat post impactum, quæ prius?

Aff. Newtoni Princ. Math. p. 17. Gravefande Elem. Math. L. i. c. 20. Keil. Phys. Lect. 13. Robaulti Phys. P. i. c. 11. § 6. Not. Domckii Philos. Newton. Tom. II. p. 23. Compendious System of Nat. Phil. P. i. c. 9. Jac. Ode Phil. Nat. L. i. c. 6. p. 103. Marriotte de la Percussion. Sturmii Phys. Elect. Tom. I. p. 772, 780. Whistoni Præl. Physico-Math. Lect. v. Wolfii Elem. Mechan. c. 11. Wallis Mechan. c. 11. p. 660. Ed. 4to. Wren in Philos. Trans. N^o 43. Cartesii Princ. P. ii. § 40--53. Eiusdem Epist. P. i. p. 217. Malebranche's Search after Truth, L. vi. c. 9. Philos. Burgund. Tom. II. p. 810. Hugenii Opusc. Post. Chambers's Diction. ad VOC. PERCUSSION.

Neg. Green's Princ. of Philos. L. ii. c. 2.

II. *Utr.*

11. *Utr.* Corporibus perfectè elàsticis in se mutuò impingentibus eadem maneat motûs quantitas ante & post impactum?

Consulantur libri in novissimâ quæstione citati.

12. *Utr.* Corporibus perfectè elàsticis in se mutuò impingentibus angulus reflectionis sit angulo incidentiæ semper æqualis?

Aff. Jac. Ode Philos. Nat. Tom. I. p. 87. *Keil.* Introd. ad Phys. Lect. cæterique citati ad Qu. 10.

13. *Utr.* Corporum gravium descensus mechanicè explicari possit?

Aff. Globulorum cœlestium pressuræ attribuit *Cartesius* Princip. P. iv. § 20. seqq. *Robaulti* Phys. P. ii. c. 28. § 8. *Ant. Le Grand* Instit. Philos. P. iv. c. 9. *Andala*, P. iv. Exerc. 2. § 15. *Philos. Burgund.* Tom. II. p. 815. Ibidem diversæ de hâc re Hypotheses ad examen revocantur.

Ab effluviis terræ magneticis corpora deorsum trahi vult *Gassendus*. Op. Tom. I. L. vi. c. 5.

Neg. Newtoni Princ. L. iii. Prop. 4---8. *Clarkii* Not. ad *Robault*. Phys. P. ii. c. 28.

§ 13. *Keil*. Præfat. ad *Phys.* *Gravesande* Elem. *Phys.* L. iv. c. 11. Et *Cartesii* & *Newtoni* Hypotheses breviter exponit *Jacobus Ode*, *Philos. Nat.* Tom. I. p. 93. V. supra, Cap. 1. Qu. 25.

14. *Utr.* Corporum vi gravitatis descendentium spatia descripta sint, ut quadrata velocitatum?

Aff. *Galilæus* in *Syst. Cosm. Dial.* 2. p. 148, 163. Idem de motu locali, *Dial.* 3. p. 156. *Hugen.* Op. Tom. I. p. 55. *Riccioli* *Almag. Nov.* Tom. I. L. ii. c. 21. *De Chales* *Cursus Mathematic.* Tom. I. p. 465--480. *Franc. de Lanis* *Mag. Nat. & Art.* Tom. I. Tract. iii. L. i. c. 1, 3. *Whiston.* Præl. *Physico-Math.* Prælect. ix. *Clark.* Not. ad *Robault.* *Phys.* P. ii. c. 28. *Gravesande* Elem. *Phys.* L. i. c. 17. *Wolfii* Elem. *Math.* Tom. I. p. 558. *Keil.* *Physic.* Præl. xi. *Jac. Ode.* *Philos. Nat.* Tom. I. p. 93. *Compendious System of Nat. Phil.* P. i. c. 5. *Desaguliers's* *Exper. Philos.* V. I. p. 317, 331, 369, 457. *Wallis* *Mechan.* P. i. c. 2. p. 33. *Pemberton's* *View of the Newton.* *Phil.* p. 56. *Worster's* *Nat. Philos.* p. 58. *Cotesii* Op. *Miscell.* p. 76. *Miscell. Cur.* V. I. p. 304. *Chambers's* *Dictionary*, ad VOC. DESCENT.

15. *Utr.* Corporis per planum inclinatum descendentis diminuatur gravitas in ratione inclinationis plani?

Conf. Auctores supra citatos.

16. *Utr.* Omnia corpora, sepositâ mediâ resistantiâ, descendere debeant æquive-
locia?

Aff. *Newton.* Princ. in Schol. generali, p. 527. *Gravesande* Philos. *Newton.* L. i. c. 9. *Musschenbroek* Phys. Elem. L. i. c. 10. § 162. *Derham's* Physico-Theol. B. i. c. 5. Note a.

Neg. Sir *Kenelme Digby* of the Nature of Bodies, P. i. c. 10. p. 101.

17. *Utr.* Corporum gravium cadere incipientium velocitas sit infinitè parva?

Aff. *Galilæus* de motu locali, p. 143. *Marriotte* de la Percussion, p. 273--289. Quibus adjungas auctores laudatos in Qu. 13.

18. *Utr.* Vibrationes penduli in Cycloide moti sint isochronæ?

Aff. *Newtoni* Princip. Math. L. i. Prop. 50--53. L. ii. Sect. 6. *Whistoni* Præl. Physico-Math. Lect. 10. p. 100. *Wallis* Opera,

Opera, V. I. p. 533. *Domckii* Philos.
Newton. Tom. II. p. 42. *De Chales* Cur-
 fus Mathem. Tom. I. p. 508. *Cotesii*
 Op. Miscell. p. 80. *Hugenii* Horol. Of-
 cillat. p. 140. *Gravesande* Elem. Phys.
 L. i. c. 19. *Wolfii* Elem. Math. Univ.
 Tom. I. p. 596, 602. *Francisc. de*
Lan. Mag. Nat. & Art. Tom. I. p. 337,
 393. Compendious System of Nat. Philos.
 P. i. c. 6. *Pemberton's* View, B. i. c. 2.
Worster's Nat. Philos. p. 78. *Desaguliers's*
 Exper. Philos. V. I. p. 229--331, 369--375.
Harris's Lexicon, and *Chambers's* Diction.
 ad VOC. PENDULUM.

19. *Utr.* Tempora vibrationum pendu-
 lorum longitudine æqualium in diversis tel-
 luris latitudinibus diversa esse debeant?

Aff. *Newtoni* Princ. L. iii. Prop. 20.
Gravesande Elem. Phys. L. i. c. 19. Phi-
 los. Transact. N^o 432. p. 302. Add. Li-
 bri supra citati,

20. *Utr.* Projectilia in motibus suis, se-
 posita medii resistantia, moveantur in Pa-
 rabolis?

Aff. *Galilæi* System. Cosmic. p. 113.
 Mechan. p. 214--226. *Newtoni* Princ.
 L. ii. Prop. 10. p. 256. *Pemberton's* View,

L. i. c. 2. p. 101. *Cotesii* Op. Miscell. p. 86. *Keil.* Introd. ad Phys. Præl. xvi. Compendious System of Nat. Philos. P. i. c. 7. *Gravesande* Elem. Phys. L. i. c. 24. *Desaguliers's* Course of Exper. Philos. V. I. p. 292--300. *Whistoni* Præl. Physico-Math. Lect. xi. *Dömckii* Philos. *Newton.* Tom. II. p. 41. *Harris's* Lexicon, and *Chambers's* Dictionary, ad vocem PROJECTILE.

21. *Utr.* Vis potentiæ mechanicæ augeatur in ratione auctæ velocitatis?

Aff. Quotquot sunt, qui de viribus Mechanicis scripsêrunt; *Wallisi* *Mechanica.* *Wilkin's* *Mathemat. Magick.* *Clarkius* in Not. ad *Robault.* Phys. P. i. c. 14. *Robault's* Treatise of Mechanicks english'd by *Watts.* *Wolffii* Elem. Mathes. Univ. Tom. I. Elem. Mech. c. 13. *Franc. de Lanis,* Tom. I. Tract. 2. L. i. c. 3. *Keil.* Introd. ad Phys. Lect. 10. *Gravesande* Elem. Phys. L. i. c. 10--15. *Jac.* Ode Nat. Phil. L. i. c. 7. Compendious Syst. of Nat. Philos. P. i. c. 10. *Worster's* Princ. of Nat. Philos. p. 31--44. *Wells's* *Mechanicks.* *Mott's* Treatise on the Mechanical Powers. *Ditton's* *Mechanicks.* *M. Varignon* *Nouvelle Mécanique.* *Desaguliers's* Course of Exper.

Exper. Philos. V. I. *Whistoni* Præl. Physico-Math. Lect. vi. *Harris's* Lexicon, and *Chambers's* Dictionary, ad voc. MECHANICKS.

22. *Utr.* Vis ad cuneum intrudendum requisita sit ad resistantiam, in ratione basis ad summam laterum?

Aff. *Clarkii* Not. ad *Robaulti* Phys. P. i. c. 14. § 9. *M. Varignon* Nouvelle Méchanique, V. II. S. 8. p. 149. *Jac. Ode* Philos. Nat. Tom. I. p. 143. *Compendious System of Nat. Philos.* P. i. c. 10. Sunt qui volunt vires esse, ut semibasis ad perpendicularem altitudinem; quæ ratio in quibusdam circumstantiis facile admitti possit. *Desaguliers's* Exper. Philos. V. I. p. 107, 112. *Whistoni* Præl. Phys. Lect. vi. p. 64. *Robault's* Mechanicks, p. 111.

Neg. Alii minùs justè ad æquilibrium restituendum requirunt, ut potentia sit ad resistantiam in ratione basis ad perpendicularem altitudinem. *Wallis* Mechan. c. 12. p. 683. *Keil.* Physic. Lect. x. *Gravesande* Elem. Phys. L. i. c. 10. N^o 119. *Supplem. Phys. in Schol. de ligno findendo*, N^o 68. *Worster's* Nat. Philos. p. 43. *Wolfii* Elem. Mech. c. 13. Theor. 125. p. 666. *Chambers's* Dict. ad vocem WEDGE. Nec

Nec defunt, qui a veritate longiùs remoti vires esse statuunt in ratione totius basis ad unum latus. *Motte* on the Mechanical Powers, p. 138.

Singulorum Hypotheses accuratè expositas vid. in *Compendious System of Nat. Philos.* P. i. c. 10.

23. *Utr.* In instrumentis mechanicis attritus sit in ratione pressuræ & superficiei?

Aff. *Desaguliers's* Course of Exper. Philos. V. I. p. 184. & alibi sæpe. *M. Amon-ton*, *De La Hire*, *M. Parent* in *Memoires de l'Acad.* *M. Varignon* in *Nouvelle Mechanique.* *Chambers's* Diction. ad VOC. FRICTION.

24. *Utr.* Momenta corporum sibi invicem impingentium sint in ratione ponderum in celeritates ductorum?

Aff. Omnes Philosophi nostrates. *New-toni* Princ. Math. P. i. Def. 2. *Compendious System of Natural Philos.* P. ii. c. 1. p. 24. *Note.* *Hook's* Posthum. Works, p. 16. Letters between *Clarke* and *Leib-nitz*, p. 327. *Note.* *Philosoph. Transact.* N° 371, 375, 376, 396, 343, 401. *Desaguliers's* Course of Exper. Philos. V. I. p. 43, 327, 393. *Neg.*

Neg. Alii momenta esse contendunt in ratione ponderum in quadrata velocitatum ductorum. *Gravesande* Philos. *Newton*. L. i. c. 22. Ejusdem Supplem. Phys. N^o 251. *Acta Erud. Lipsiens.* A. D. 1686. p. 162. 1690. p. 234. 1691. p. 439. 1695. p. 153. *Musschenbroek* Epit. Elem. Phys. L. i. § 370.

25. *Utr.* Instrumenta mechanica vim potentiæ reverà augere possint? Sive,

Utr. Motus perpetuus sit possibilis?

Neg. *De Chales* Cursus Math. Tom. II. p. 185, 231. *Sturmii* Auctarium, p. 79. *Wilkins* Mathemat. Magick, B. ii. c. 9. *Robaulti* Phys. P. i. c. 22. § 86. *Cheyne's* Philosoph. Princ. p. 16. *Franc. de Lanis* Mag. Nat. & Art. T. I. P. iv. L. 3. *Jac.* Ode Phil. Nat. Princ. Tom. I. p. 100. *Philos. Transact.* N^o 369. *Desaguliers's* Course of Exper. Philos. Tom. I. p. 175. *Compendious System of Nat. Philos.* P. i. c. 10. § 21. *Harris's* Lexicon, and *Chambers's* Dictionary ad voc. PERPETUAL MOTION.

CAPUT VI.

QUÆSTIONES HYDROSTATICÆ.

I. De FLUIDIS in genere.

I. **U**TRUM Fluiditas oriatur ex intestino partium motu?

Aff. *Cartesii* Princ. Phil. P. ii. § 23, 54. *Robaulti* Phys. P. i. c. 22. § 9. *Clercici* Phys. L. v. c. 15. *Regnault's* Philos. Convers. V. I. p. 262. *Jac.* Ode Philos. Nat. Princ. Tom. I. p. 66. & Tom. II. p. 52. *Le Grand* Phil. Instit. P. vi. c. 11. *Franc. Bayle* Phys. Instit. Tom. I. Disput. 8. § 43. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. L. iv. c. 2. Prop. 16. *Philosoph. Burgund.* Tom. II. p. 892.

Neg. Qui *Newtonianam* Philosophiam amplectuntur, fluiditatem in eo constituunt quòd partes fluidi sint exiguæ, læves & sphericæ, adeo ut impressioni cuicunque inæquali cedant, & cedendo facillimè inter se moveantur. *Gassendi* Opera, V. I. p. 402. *Newtoni* Princip. Math. L. ii. Prop. 19. p. 282. *Ejusdem* Optic, p. 335. *Hook's* Posth.

Posth. Works, p. 191. *Cheyne's Philos. Princ.* p. 59. *Gravesande Elem. Math.* L. ii. c. i. *Musschenbroek, Phys. Elem.* P. ii. c. i. § 605. *Boyle's Works* abridg'd by *Shaw*, V. I. p. 313. V. II. p. 268. *Worster's Princ. of Philos.* p. 111. *Compendious System of Nat. Phil.* P. ii. c. i. § 2. *Sturmii Coll. Curios.* P. ii. p. 75. *Ditton's New Law of Fluids.* *Gulielmini della Natura di fiumi.* *Chambers's Diction.* ad voc. FLUID.

2. *Utr.* Fluida consistant ex particulis solidis?

Aff. *Keilii Epist. ad Gul. Cockburn,* Theor 3. In Oper. 4to, p. 624. Adjungas auctores supra citatos.

3. *Utr.* Fluida distingui debeant ab humidis?

Aff. *Marriotte's Hydrostaticks*, english'd by *Desaguliers*, p. 2. *Jac. Ode Philos. Nat. Princ.* Tom. I. p. 67. *Sturmii Physic. Elect.* Tom. I. p. 311. *Boyle's Hist. of Fluidity*, P. i. §. 19.

Neg. *Compendious System of Nat. Philos.* P. ii. c. i. p. 2. *Note.* *Musschenbroek El. Phys.* P. ii. c. i. § 596. *Gassendi Opera*, Tom. I. p. 404.

L

4. *Utr.*

4. *Utr.* Fluida gravitent in propriis locis? Sive,

Utr. Fluida ejusdem generis in se invicem & in fluida diversi generis gravitent?

Aff. Boyle in Paradox. Hydrostat. Par. i, vi. or, Shaw's Abridgment, V. II. p. 287, 306. Wallisii Opera Math. V. I. p. 1032.

Jac. Ode Philos. Nat. Tom. I. p. 151. Tom. II. p. 56. Newtoni Princ. Math.

L. ii. Pr. 36. Gravefande Elem. Phys.

L. ii. c. 2. Musschenbroek Epit. Phys. P.

ii. c. 2. Worster's Prin. of Philos. p. 112.

Philos. Burgund. Tom. II. p. 831. Boer-

haave Elem. Chem. V. I. p. 434. Clar-

kii Not. ad Robault. Phys. P. i. c. 16. § 8.

Compendious System of Nat. Philos. P. ii.

c. 1. § 8. Switzer's Univ. Syst. of Water,

B. ii. c. 12. Sinclair's Hydrost. passim.

Chambers's Dict. ad voc. FLUID.

Neg. Cartesii Princ. Phil. P. ii. § 56.

Mori Enchir. Metaph. P. i. c. 13. Le

Grand Phil. Inst. P. vi. c. 11.

5. *Utr.* Fluidorum quiescentium superficies sit Horizonti parallela?

Aff. Archimed. de insident. humido, L.

i. c. 2. Musschenbroek Elem. Phys. P. ii.

c. 2. § 629. Compendious System of Nat.

Phil.

Phil. P. ii. c. i. § 7. *Hermanni* Phoronom. l. 2. § 303.

6. *Utr.* Fluida gravitent pro altitudine perpendiculari?

Consulantur auctores supra citati.

7. *Utr.* Fluida premant infernè sursum?

Facile sequitur ex quæstione superiori; itaque adeas auctores eisdem.

8. *Utr.* Fluidorum pressio lateralis æqualis sit pressioni eorundem perpendiculari? Sive,

Utr. Fluida premant ab omni parte æqualiter?

Aff. Jac. Ode Philos. Nat. Tom. I. p. 160. *Gulielmini* della Natura de fiumi. *Newtoni* Princ. L. ii. Prop. 19. Adjungas auctores supra citatos.

9. Corpora in fluidis immersa tantam sui ponderis partem amittant, quanta æquali fluidorum moli æquiparatur?

Consulantur auctores supra citati; speciatim verò *Jac.* Ode Philos. Nat. Tom. I. p. 163. *Gravesande* Elem. Phys. L. ii. c. 3. *Compendious System of Natural Philos.* P. ii. c. 2. § 6.

10. *Utr.* Corpora in fluidis cadentia ponderis sui partem amittant?

Aff. *Michelottus* de separatione fluidorum, *Prænot.* i. p. 44. *Philos. Transact.* N^o 351. *Jones's* Abridgment, Vol. IV. P. ii. p. 10. *Musschenbroek* Epit. Phys. Elem. P. i. § 199. P. ii. c. 10.

11. *Utr.* Corpora in fluidis cadentia ad æquabilem velocitatem constanter accedant?

Aff. *Newtoni* Princ. Math. L. ii. Prop. 49. *Warster's* Philos. p. 67. *Gravesande* Phys. Elem. L. ii. c. 6. n. 348.

12. *Utr.* Resistentia fluidorum oriatur ex vi inertię & tenacitate fluidi?

Aff. *Newtoni* Optic. Qu. 20. p. 307. *Gul. Muys* Elem. Phys. p. 593.

13. *Utr.* Resistentia fluidorum sit in quadrata ratione velocitatum?

Aff. *Newtoni* Princ. L. ii. Prop. 4. Schol. *Pemberton's* View, B. i. c. 4. p. 147. *Huygens* de la Pesanteur, p. 169. *Gravesande* Elem. Phys. L. ii. c. 11, 12. *Compendious System of Nat. Phil.* P. ii. c. 4. *Musschenbroek* El. Phys. B. ii. c. 10.

14. *Utr.* Retardatio corporum in fluidis motorum fit in ratione inversâ densitatum & diametrorum?

Conf. Auctores supra citati?

15. *Utr.* Velocitas aquæ ex vase profluentis fit in subduplicatâ ratione altitudinis aquæ?

Aff. *Newtoni* Princ. L. ii. Prop. 26. *Gravesande* Elem. Phys. L. ii. c. 8. *Compendious System of Nat. Philos.* P. ii. c. 1. § 10, 11. *Musschenbroek* El. Phys. P. ii. c. 4. § 663. *Marriotte's Hydrostat.* english'd by *Dafaguliers*, P. iii. Disc. 1, 2. *Gulielminus* de aquâ fluenti, L. ii. c. 1. *Wolffi* Elem. Mathes. Univ. Tom. I. p. 795. *De Chales* Cursus Math. Tom. II p. 197. *Torricellius* de motu projectil. p. 196. *Polenus* de motu aquæ, L. i. § 30. *Castellus* de motu aquæ. *Chambers's Dict.* ad voc. FLUID.

16. *Utr.* Fluida, quorum diversa est gravitas specifica, vi æquali per foramina expressa in obices resistentes æquales edant effectus?

Aff. *Marriotte's Hydrostaticks*, p. 139. *Musschenbroek* Elem. Phys. P. ii. c. 8. § 722.

17. *Utr.* Attritus & resistentia medii in causâ sint, quare experimenta de fluidis profilientibus ipsi Theoriæ haud juste respondeant?

Aff. *Newtoni* Princ. Phil. L. ii. Prop. 36, 40. *Musschenbroek* El. Phys. P. ii. c. 4. § 675. c. 5. § 686. *Gravesande* Elem. Phys. P. ii. c. 11. *Worster's* Nat. Phil. p. 122.

18. *Utr.* Ascensus & suspensio liquorum in tubis capillaribus solvantur ab attractione annularis superficiei superioris contiguæ?

Hujusce Hypotheseôs inventio *Jurini* ingenio attribuenda est. *Philos. Transact.* N^o 355. p. 739. *Jones's* Abridgment, V. I. P. i. p. 423. *Compendious Syst. of Nat. Ph.* P. ii. Dissert. 2. *Worster's* Nat. Ph. p. 19. *Chambers's* Diction. ad voc. CAPILLARY TUBES. *Musschenbroek* Elem. Phys. P. i. c. 21. § 573.

Qui ante *Jurinum* florebant philosophi, hujusce Phænomeni causam vel pressuræ ætheris vel attractioni totius concavæ superficiei adscribere solebant.

I. Pressuræ ætheris. *Bernoulli* de Grav. Ætheris. *Boyle's* Physico-Mechan. Exper. ix. *Sturmii* Coll. Curios. Tentam. 8.

Hooke's

FLUIDIS IN GENERE.

Hooke's Microg. Obs. 6. *Lewenhoek* Continuatur. Arcan. Nat. Epist. 131. *Sinclair* de Gravit.

II. Attractioni totius concavæ superficiei. *Hawksbee's* Physico-Mech. Exp. p. 98, 177. *Morgan's* Phil. Princip. of Medicine, p. 88.

III. Nonnihil toti superficiei superiori attribuit *Musschenbroek* Phys. Exper. de tubis capillaribus, 4to.

IV. Omnes hæc causas conjunctas esse voluit *Regnault*. Philos. Convers. V. I. p. 353. Conf. *Memoires de l'Acad. A.D.* 1714. p. 85, 86, 336, 339, 345. *A.D.* 1705. p. 245. *A.D.* 1714. p. 85. *A.D.* 1722. p. 336. *A.D.* 1724. p. 13, 101.

Vid. supra, Cap. i. Qu. 21, 22.

19. Utr. Aquæ ascensus inter duo plana vitrea in forma Curvæ Hyperbolicæ solvatur ab attractione?

Aff. *Ditton's* New Law of Fluids. Cui adjungas auctores supra citatos.

20. Utr. Pressio per fluidum propagari possit secundum rectas lineas?

Aff. *Cartes.* Dioptr. c. 1. § 3. *Le Grand* Instit. Phil. P. v. c. 15. § 3.

Neg. *Newtoni* Princ. L. ii. Prop. 41. P. 357.



II. De A Q U A.

21. *Utr.* Detur aqua pura & elementaris?

Aff. Boerhaave Elem. Chem. V. I. p. 627. *Musschenbroek* Elem. Phys. P. ii. c. i. § 610.

Neg. Boyle de Orig. formarum, p. 259---273. Sceptical Chymist, P. ii. *Musschenbroek* El. Phys. P. ii. c. ii. § 778. qui prius affirmaverit loc. cit.

V. supra, Cap. 2. Qu. 24.

22. *Utr.* Aqua in minores angustias compressi possit?

Neg. *Musschenbroek* Elem. Phys. P. ii. c. ii. p. 214. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. L. v. c. i.

Ambig. Boyle's Hydrostat. Paradox. or, his Works abridg'd by Shaw, V. I. p. 628. V. II. p. 290. *Jac. Ode* Phil. Nat. Princ. p. 54. *Verulamii* Nov. Organ. L. ii. n. 45. p. 390. Shaw's Abridgment of Bacon's Works, V. III. p. 56.

Aff. Compendious System of Nat. Phil. P. ii. c. i. § 2.

23. *Utr.* Aqua contineat aërem?

Aff.

Aff. Boërhaave Elem. Chem. V. I. p. 512. *Jac.* Ode Phil. Nat. Tom. II. p. 54. Boyle abridg'd by Shaw, V. II. p. 425, 531. Hamelii Hist. Acad. L. iii. § 7. c. 1. Franc. Bayle Inst. Phys. Tom II. p. 443. Musschenbroek Elem. Phys. P. II. c. 11. § 791. Hale's Stat. Essays, V. II. p. 275.

24. *Utr.* Aqua vi elasticâ polleat?

Neg. Boyle's Works abridg'd by Shaw, V. II. p. 425. *Jac.* Ode Philos. Nat. Princ. Tom. II. p. 54. Senguerd. Connub. Ration. & Exp. c. 8, p. 51.

Aff. Schott. Tech. Curios. L. ii. c. 22, 30. De Stair Physiol. Nov. Explor. ix. §. 2. p. 369. Vid. supra, Qu. 18.

25. *Utr.* Aqua in aquam gravitet?

Vid. supra, Qu. 4.

26. *Utr.* Aqua in aërem sit convertibilis, & vicissim aër in aquam?

Aff. Aristot. de Gen. & Corrupt. L. ii. c. 4. Lord Bacon's Works abridg'd by Shaw, V. III. p. 33, 239, 559, 571.

Neg. Varen. Geogr. Gen. L. i. c. 19. Prop. 5. Boyle's Physico-Mech. Exper. 22. Boërhaave's Elem. Chem. V. I. *Jac.*

Ode Philos. Nat. Tom. II. p. 151. *Schotti*
Tech. Curios. L. ii c. 24. Franc. Bayle
Instit. Phys. Tom. II. p. 340.

27. *Utr. Generalia æstuum Phænomena*
solvantur ab attractione Solis & Lunæ?

Aff. Newtoni Princ. Math. L. iii. Prop.
24. Gregor. Astron. Phys. & Geometric.
L. iv. Prop. 64, 65. Halley's Theory of
the Tides, Miscell. Curios. V. I. p. 13.
Philosoph. Transact. N^o 226. Whistoni
Præl. Phys. Math. Lect. xxxvii. p. 306.
Domckii Philos. Newton. Tom. II. p. 159.
Pemberton's View, p. 283. Gravejande
Elem. Phys. L. iv. c. 19. Clarkii Not. ad
Robault. P. ii c. 29. Worster's Nat. Phi-
los. p. 68. Jac. Ode Philos. Nat. P. ii.
p. 61. Chambers's Diction. and Harris's
Lexicon, ad voc. TIDES.

Neg. Referunt nonnulli ad motum, quo
interceptus aër compressus â Lunâ aquam
inferne positam urgeat. Cartes. Princ. P.
iv. S. 49. seqq. Le Grand Instit. Philos.
P. vi. c. 12. Robault. loc. citat. Stur-
mius in Phys. Elect. Tom. II. p. 250.
Franc. Bayle Instit. Phys. Tom. II. p. 417.
Andala, P. iv. Exerc. 9. Clerici Phys. L.
ii. c. 8. §. 15. Varen. Geogr. Gen. L. i.
c. 14. Prop. 11. Philos. Burgund. Tom. II.

p. 1029.

p. 1029. *Regnault's* Philos. Conversat. V.
H. p. 85. *Buddei* Philos. Theor. P. iii. c.
1. § 29.

De veterum hypothefibus vid. *Aristot.*
de Meteor. Tract. viii. c. 8. *Plin.* Nat.
Hist. L. ii. c. 97. *Plutarch.* de Plac. Phi-
lof. L. iii. c. 17. *Pomponius Mela* de situ
Orbis, c. 1. *Varen.* Geogr. Gen. loc. cit.
Gassendi Opera, Tom. II. L. i. c. 4. p.
27.

De fontibus, thermis, lacubus, fluviis,
aquis marinis, mineralibus, & congelatis,
vid. supra, Cap. 2. Qu. 31--44.

III. De AERE.

28. *Utr.* Aër in aërem & in alia corpo-
ra gravitet?

Aff. *Boyles's* Hydrostatical Paradoxes.
His Physico-Mechan. Experiments. Me-
moirs for a General History of the Air.
Et passim in aliis tractatibus, quorum com-
pendium vid. in *Shaw's* Abridgment, V. I.
p. 178. V. II. p. 286, 410, 448, 679--691.
V. III. p. 50. *Newtoni* Prin. p. 512.
Gravesande El. Phys. Tom. I. L. ii. c. 15.
Musschenbroek Elem. Phys. Epit. P. ii. c.
22. § 1040. *Bernoulli* de Grav. Ætheris,

p. 1. *Acta Erud. Lips.* A. D. 1685. *Jac. Ode* Philos. Nat. Prin. P. ii. p. 71. *Boerhaave* Elem. Chem. V. I. p. 434. *Clerici* Phys. L. iii. c. 1. *Philos. Burgund.* V. II. p. 833. *Buddei* Philos. Theor. P. iii. c. 2. § 16. *Regnault's* Phil. Convers. V. I. Conv. 22. p. 307. *Homborg.* Hist. de l'Acad. 1687. p. 260, & passim. *Marriotte* de la Nature de l'Air. *Lowthorpe's* Abridgment of Phil. Transf. V. III. p. 204. *Worster's* Nat. Phil. p. 144. *Wolfii* Elem. Aërometriæ, cap. 2. *Sinclair's* Hydrostat, *Hareksbee's* Experiments; cum innumeris aliis, quotquot scil. vacuum asseruerunt.

Neg. Cartesiani omnes naturæ effectus, qui ex solo aëris pondere profluunt, ad metum vacui referre solent. Vix opus est eorum nomina recensere. V. supra. Cap. I. Qu. 14.

Conf. Mr. *Boyle's* Examen of *Hobbes's* Dial. Physicus de Natura aëris. Item, His Defence of the Doctrine of the Spring and Weight of the Air, against the Objections of *Franciscus Linus*. Aliis objectionibus respondet in Hydrost. Parad. i. Schol.

De natura & proprietatibus aëris eruditè differuit *Chambers*, Diction. ad voc. AIR.

29. Utr. Aër sit fluidum elasticum?

In-

Ingens est auctorum numerus, quorum testimonio confirmatur pars quaestionis affirmativa. Tædet toties repetitæ crambes.

V. Qu. præced.

30. *Utr. Aëris elasticitas solvenda sit a vi particularum repulsivâ?*

Aff. Newtoni Princ. Math. L. ii. Prop. 23. Schol. Eiusdem Optic. Qu. 30, 31. *Hale's* Stat. Essays, V. I. c. 6. p. 212. *Gravesande* Philos. Newton. L. ii. c. 12. N^o 475. *Worster's* Nat. Philos. p. 148. *Sturmi* Phys. Elect. Tom. I. p. 331. *Jac. Ode* Philos. Nat. Princ. P. i. p. 71.

Neg. Sunt, qui elasticitatem aëris ex particulis, spiralium ad instar, intortis solvere fuscipiunt. *Philos. Burgund.* Tom. II. p. 807. *Boyle's* Works abridg'd by *Shaw*, V. II. p. 410, 667. Conf. *Compendious Syst. of Nat. Philos.* P. ii. c. 3. § 10. *Note.*

Vid. supra, Cap. 1. Qu. 23. & Cap. 2. Qu. 48.

31. *Utr. Aëris densitas sit, ut pondus eundem comprimens?*

Aff. Newtoni Princ. L. ii. Prop. 22. *Compendious System of Nat. Philos.* P. ii. c. 3. § 10. *Boyle's* Tracts, passim. *Shaw's* Abridgment, V. I. p. 669---673. *Jac. Ode*

Ode Philos. Nat. P. ii. p. 128. *Marriotte*
 de nat. aëris, p. 29. De motu aquarum,
 p. 140. *Wolfii* Elem. Math. Univers. Tom.
 I. p. 744. *Mulleri* Colleg. Exper. P. i. c.
 3. § 90. *Gravesande* Phys. Elem. L. ii.
 c. 13.

32. *Utr.* Aëris elasticitas fit in ratione
 densitatis?

Aff. Conf. auct. supra citat.

33. *Utr.* Destrui possit aëris elasticitas?

Aff. Dr. *Hale's* Statical Essays, V. I. p.
 316. V. II. p. 278, 286, 321.

Neg. *Boerhaave* Elem. Chem. Tom. I.
 p. 452, 460. *Jac.* *Ode* Philos. Nat. P. ii.
 p. 125.

Ambig. *Boyle's* Works abridg'd by *Shaw*,
 V. II. p. 429, 544.

34. *Utr.* Generari possit aër?

Aff. *Hale's* Statical Essays, passim. *New-*
toni Opt. Qu. 31.

Ambig. *Boyle's* Physico-Mech. Exp.
Shaw's Abridgment, V. I. p. 429--433.

35. *Utr.* Aër in aquam fit converti-
 bilis?

Vid. supra, Quæst. 26.

36. *Utr.*

36. *Utr.* Phænomena Mercurii in Barometro solvi possint ex gravitate & elasticitate aëris?

Barometrum primus invenit *Torricellius*, adauxit *Boyleus*; & deinceps *Robbervallius* & *Hugenius*. Vid. *Chauvini* Lexicon Philosoph. ad voc. BAROMETRUM.

Aff. *Halley's* Discourse on the Barometer, Miscell. Curios. V. I. p. 81. Philos. Transact. N^o 181, 292, & passim. *Lowthorp's* Abridgment, p. 20, & sæpe alibi. Vid. *Jones's* Indic. general. ad calcem, Vol. V. *Power's* Experimental Philos. Book ii. *Pemberton's* View, L. ii. c. 6. § 13. Act. Erud. *Lipsiens.* A. D. 1696. p. 41. Supplem. Tom. I. p. 352. A. D. 1704. p. 538. *Boerhaave's* Elem. Chem. V. I. p. 479. *Shaw's* Abridgment of *Boyle*, V. II. p. 424. *Clarkii* Not. ad *Robault*. P. i. c. 12. § 26, 41.

Neg. Dr. *Leigh's* Nat. Hist. of *Lancashire*, p. 16. *Kircher* de re Musicâ.

Sunt, qui volunt gravitatem aëris causam esse remotam, & elasticitatem ejus proximam & principalem. *Senguerdi* Connub. Rat. & Exp. p. 211--216.

Cartesiani ad fugam vacui referunt. Vid. supra, Qu. 28.

De

De *Franc. Lini* Hypothefi funiculari vid. *Powers* Exp. Philof. B. ii. c. 10. & ejufdem confutat. ibid. c. 11.

De Methodo conſtruendi Barometri, vid. *Jac.* Ode Philof. Nat. V. I. p. 135.

De variis Barometrorum ſpeciebus, vid. *Shaw's* Abridgment of *Boyle*, V. II. p. 425, 490--496. V. III. p. 42--45. *Hooke* in Præfat. ad Microgr. *Wolfii* Elem. Univ. Math. Tom. I. p. 760. *Senguerdi* Connub. Ration. & Exp. p. 210. *Acta Eruditor. Lipſienſ.* A. D. 1684. p. 26. *Hugen.* Opera, Tom. II. p. 276.

De variis eorum Phænomenis ad tempeſtatum mutationes diſcernendas, vid. *Jac.* Ode loc. cit. p. 137. *Boyle's* Works abridg'd by *Shaw*, V. III. p. 48. *Franc. de Lanis* Mag. Nat. & Art. Tom. II. p. 284. *Sturmi* Coll. Curioſ. Auctar. P. i. p. 23. Philof. Tranſact. 1665, 1666.

Omnia ad hanc materiam ſpectantia copioſè tradidère *Chambers*, & *Harris*, ad vocem BAROMETER.

37. *Utr.* Sufpenſio Mercurii in tubo vitreo ad ſexaginta aut ſeptuaginta unciarum altitudinem ſolvenda fit ab attractione co hæſionis?

Aff.

Aff. Newtoni Opt. Qu. 31. Jac. Ode
Philos. Nat. Tom. I. p. 63. Clarkii Not.
ad Robault. Phys. P. i. c. 12. § 29.

Neg. Ex pressura ætheris solvitur ab Hu-
genio, Exper. Phys. 1, 2. in operibus 4to
p. 770, seqq. Philosoph. Transact. N° 86.
Bernoullus de Grav. Ætheris, p. 127.
Wallisus (qui aliquantulum tubi asperitati
attribuit) de motu, c. 14. Schol. Prop. 13.
Philosoph. Transact. N° 91. Lowthorp's
Abridgment, V. II. p. 23-28. Brouncker,
ibid. Hook's Posth. Works, p. 365.

38. *Hydroscopii Phenomena solvantur*
ex humiditate & siccitate atmosphaeræ?

Aff. Wolfii Elem. Math. Univ. Tom. I.
p. 782. Sturmii Coll. Cur. P. i. p. 124.
Shaw's Abridgment of Boyle, V. II. p.
375-382.

Methodum conficiendi Hydroscopii do-
cent Jac. Ode Phil. Nat. p. 158. Stairius
in Physiol. Nov. Explor. 19. S. 4. Franc.
Bayle Instit. Phys. Tom. II. p. 463. Alii-
que quos vid. apud Ode I. c. Chambers's
Dictionary, ad voc. HYGROMETER.

39. *Utr. Bullarum vitrearum innatatio*
& immersio solvantur ex gravitate & elasti-
citate aeris?

Aff. De Chales Cursus Math. Tom. II. p. 166. *Sturmii* Colleg. Curios. Tom I. p. 28. *Auctar.* p. 49. *Regnault's* Philos. Conv. V. I. p. 332. *Jac. Ode* Philos. Nat. P. i. p. 156. P. ii. p. 120. *Gravesande* Physf. Elem. L. ii. c. 15. n. 462. *Robaulti* Physf. P. i. c. 22. § 47.

40. *Utr.* Antliarum & siphonum Phænomena solvantur ex gravitate aëris?

Aff. Wallis, Opera Math. V. I. p. 1053. *Boyle's* Physico-Mech. Exp. *Shaw's* Abridgment, Vol. II. p. 300, 310, 446, 497. *Sturmii* Colleg. Curios. T. I. p. 1. *Mariotte's* Hydrostat. English Ed. P. ii. p. 53. *Worster's* Nat. Philos. p. 119. *Regnault's* Philos. Conv. V. I. p. 350. *Gravesande* El. Physf. L. ii. c. 16.

Neg. Cartesiani; qui omnia hujusmodi Phænomena ad metum vacui referunt. *Robault.* Physf. P. i. c. 12.

Vid. supra, Cap. 1. Qu. 14.

41. *Utr.* Aëris elasticitas in causa sit, quare, ope Antliæ Pneumaticæ, aër e vase exhauriri possit?

Aff. Gravesande Physf. Elem. L. ii. c. 14. *Jac. Ode* Philos. Nat. P. ii. p. 118. *Wolfii* Aërometr. c. 2. Math. Univ. V. I.

P. 735.

p. 735. *Hamelii* Philos. Vet. & Nov. Tom. IV. p. 234.

Antliæ Pneumaticæ descriptionem & usum vid. apud *Boyle* (cujus ingenio inventionem hujus machinæ utilissimæ acceptam referimus) Physico-Mechan. Exp. *Shaw's* Abridgment, V. II. p. 407--412, 474, 555, 683--697. *Hawksbee's* Experiments. *Chambers's* Dict. & *Harris's* Lexic. ad voc. AIR-PUMP.

42. *Utr.* Recte statuit HALLEIUS de campanâ urinatoriâ?

Aff. Philosoph. Transact. N^o 349. p. 492. *Jones's* Abridgment, V. IV. P. ii. p. 188. *Regnault's* Philos. Convers. V. I. p. 305. *Jac.* Ode Philos. Nat. Princ. P. ii. p. 127. *Worster's* Nat. Philos. p. 166. *Stairius* in Physiol. Nov. Explor. 19. S. 8. *Franc. de Lan.* Mag. Nat. & Art. Tom. II. L. v. c. 3. Art. 34.

Usus hujusmodi campanæ exponunt *Sturmius* in Coll. Cur. P. i. Tent. 1. & P. ii. Tent. 1. Philos. Elect. Tom. I. p. 325. *Mullerus* in Coll. Exper. P. i. c. 3. *Sinclair.* Hydrostat. p. 77.

Objectionibus quibusdam respondet *Boyleus* in Hydrostat. Parad. i. Schol. *Shaw's* Abridgm. V. II. p. 290.

43. *Utr.* Aër fit vehiculum soni?

Aff. *Hawksbee's* Physico-Mechan. Exper. p. 129, 134. *Shaw's* Abridgment of *Boyle*, V. II. p. 510. *Note.* *Philos. Trans.* N^o 247, 313, 319. *Miscell. Cur.* V. I. p. 121. *Lowthorp's* Abridgment, V. I. p. 306. *Jones's* Abridgm. Vol. IV. p. 396, 414. *Robaulti* Phys. p. 1. c. 26. *Franc. de Lanis* Magist. Nat. & Art. Tom II. p. 410. *Pemberton's* View, &c. p. 270. *Jac.* Ode *Philos. Nat.* P. i. p. 287. *Newtoni* Princ. Math. L. ii. Prop. 46. *Gravesande* Elem. Phys. L. ii. c. 17. *Compendious* System of Nat. *Philos.* P. ii. Diss. i. p. 47. *Regnault's* *Philos. Conv.* V. II. p. 241. *Musschenbroek* Elem. Phys. P. ii. c. 23. *Clerici* Phys. L. v. c. 10. *Guerickius* de spatio vacuo, L. iii. c. 15. *Cartes.* Princ. P. iv. § 194.

Neg. Sunt, qui sonos per ætherem terrestri atmosphærâ subtiliorem propagari existimant. *Sturmii* Colleg. Cur. P. i. Auct. p. 58. *Scotti* Techn. Curios. L. iii. c. 2.

Idem suspicari videtur *Newtonus*. Princ. Math. ad calcem. *Ejusdem* Optic. Qu. 18--23.

Quodcunque ad naturam sonorum pertinet; breviter exposuit *Chambers*, ad voc. SOUND.

44. *Utr.*

44. *Utr.* Soni, utcunque in tonis diversi, propagari debeant eadem velocitate?

Aff. Boyle's Works by Shaw, V. I. p. 145. V. II. p. 152. Robaulti Phys. P. i. c. 26. § 34. Miscell. Cur. V. I. p. 121. Hawksbee's Exper. p. 262. Pemberton's View, p. 282. Lowthorpe, Jones, Gravesande, Musschenbraek, Clericus, &c. ubi supra.

45. *Utr.* Echo sit sonus reflexus?

Aff. Miscell. Curios. V. I. p. 121. Sturmii Phys. Elect. Tom. I. p. 661. Jac. Ode Philos. Nat. Tom. I. p. 296. Kircher de re musicâ, L. ix. Compendious System of Nat. Philos. P. ii. Diff. 1.

De locis ob sonos sæpius iteratos celebribus, vid. Jac. Ode l. c. p. 297. Plot's History of Oxfordshire. Acta Eruditor. Lipsiens. 1692. p. 304. Franc. de Lanis Mag. Nat. & Art. Tom. II. p. 438. Kircher de re musicâ, L. i. S 4. c. 3.

46. *Utr.* Tubæ Stenterophonicæ ratio solvatur ex soni reflectione?

Aff. Kircher de re musicâ, L. ix. Par. iv. Jac. Ode Nat. Philos. P. i. p. 193. Compendious

pendious System of Nat. Philos. P. ii. Dis-
sert. i. p. 53. *Note.* *Sturmi* Coll. Cariof.
P. ii. Tentam. 8. Phys. Elect. Tom. I. p.
673, 676. *Lowthorp's* Abridgment of Phi-
los. Transact. V. I. p. 593. Miscell. Cur.
V. I. p. 121. *Chauvini* Lexicon, ad voc.
SONUS.

47. *Utr.* Effectus TARANTULÆ mor-
sus a certa sonorum modulatione sanari
possint?

Vid. supra, Cap. 2. Qu. 16.

Veteres Philosophi in diversas distabant
sententias de causis visionis. Quidam

Platonici lucem ex oculis emicare arbitran-

CAPUT VII.

QUÆSTIONES OPTICÆ.

I. De Visione in genere.

1. UTRUM structura oculi camera
obscuræ, aut fictitio oculo ab HU-
GENIO descripto respondeat?

Aff. Hugonii Opusc. Posthuma, p. 112.
Præcipui auctores, qui structuram oculi de-
scribunt, sunt *Briggius* in Ophthalmogra-
phia; c. i. *Newton's* Optic. B. i. Ax. 7.
p. 11. *Robaulti* Phys. P. i. c. 28-32.
Sturm. Philos. Elect. Tom. I. Exerc. 9.
Niewentyt's Religious Philos. Contempl. 13.
Wolffii Elem. Math. Univ. Tom. II. p. 6-8.
Regnault's Philos. Convers. V. II. p. 324.
Gravesande Phys. Elem. L. iii. c. 10.
Musschenbroek El. Phys. Math. P. iii. c. 17.
Cowper's Anat. Introd. & Tab. xi. *Keil's*
Anat. c. 4. S. 4. *Cheselden's* Anatomy,
L. iv. c. 4. *Chambers's* Dict. ad voc. EYE.

2. Utr. Visio oriatur ab imagine, quam
radii lucis in retinam depingunt?

Ve-

Vetères Philosophi in diversas distrahuntur sententias de causis visionis. Quidam *Platonici* lucem ex oculis emicare arbitrati sunt. *Epicurei* per idola corporea, *Peripatetici* per species intentionales (modo ab *Epicureis* haud multum ablimili) visionem fieri docuerunt. Vid. *Chauvini* Lexicon, ad voc. VISIO. *Gassendi* Philosophi. *Epic.* p. 128. *Jac.* Ode Philos. Nat. P. i. p. 240. *Lucret.* L. iv. ver. 160--218. *Gelhius*, L. v. c. 16.

Aff. Plerique omnes Philosophi recentiores. Vid. auctores in præcedent. Quæst. citatos.

3. *Utr.* Magnitudo imaginis in retinam depictæ sit, ut angulus opticus, i. e. quem subtendit res objecta ad oculum?

Aff. *Keil.* Introd. ad Astron. Lect. i. *Gravesande* Phys. Elem. L. iii. c. 11. *Wolffii* Elem. Math. Univ. Tom. II. c. 5. p. 38.

4. *Utr.* Motus corporis apparens æstimetur ex motu imaginis in fundum oculi depictæ?

Aff. *Keil*, *Gravesande*, ubi supra. *Wolffii* Elem. Math. Univ. Tom. II. c. 8. p. 67.

Neg. *Malebranche*, Search after Truth, L. c. 8. § 2.

5. *Utr.*

5. *Utr.* Distantia objectorum haud longo intervallo ab oculo remotorum æstimetur ab angulo, quem formant axes optici?

Aff. *Cartes.* Dioptr. c. 6. § 13. & *Epist.* P. i. p. 229. *Jac.* *Ode* Philos. Nat. Princ. P. i. p. 244. *Gravesande* Phys. Elem. L. iii. c. 11. *Malebranche*, Search after Truth, L. i. c. 9. § 3. *De Cbales* Cursus Math. Tom. II. p. 386. *Aguilon.* Opt. p. 155.

Neg. Ab usu & experientia nos omnino distantias æstimare vult *Berklaius.* *New* Theory of Vision, § 1. *Minute* Philos. V. I. p. 223. *Cbeselden's* Anatomy, Append. p. 349.

Plerique volunt distantias non sensu, sed præjudiciis sæpius æstimari. *Clarkii* Not. ad *Robaulti* Phys. P. i. c. 32. § 14. *Molineux* Dioptric. p. 113, 118. *De Cbales* Cursus Math. Tom. II. p. 405.

Varias causas, ex quibus distantia æstimari solent, recenset *Jac.* *Ode* loc citat.

6. *Utr.* Magnitudo objecti æstimetur a magnitudine imaginis in fundo oculi formatæ, unà cum præjudicata opinione de ejusdem distantia?

Aff.

Aff. Gravesande Elem. Phys. L. iii. c. 11.
Jac. Ode Philos. Nat. P. i. p. 246. Wol-
ffii Elem. Math. Univ. Tom. ii. c. 5. p. 38.
Musschenbroek Elem. Phys. P. ii. c. 19.
 § 967.

Neg. Berkley's New Theory of Vision,
 § 53, &c.

7. *Utr. Causa, quare objectum duobus*
oculis visum simplex appareat, sit concursus
axium opticorum in ipso objecto?

Aff. Robaulti Phys. P. i. c. 31. § 20.
Sturmii Philos. Elect. Tom. II. Exerc. 5.
c. 3. § 6. Honor. Fabri de Homine, L. ii.
Prop. 93. L. vii. Prop. 52. p. 540. Aguilon
Opt. p. 346. Molyneux Dioptric. p. 287.
De Chales Cursus Math. Tom. II. p. 380.
Jac. Ode Phil. Nat. Princ. P. i. p. 247.
Acta Eruditor. An. 1683. p. 454. Cartesj.
Dioptr. c. 6. § 86.

Neg. Sunt, qui causam repetunt a coali-
tione nervorum opticorum, priusquam ad
sensorium deferantur. Galen. de usu Par-
tium, L. x. c. 14. Willis de An. Brutor.
c. 15. p. 143. Bartholini Anatom. Renov.
p. 672. Gravesande Elem. Phys. L. iii. c.
10. p. 47. Briggii nova visionis Theoria,
 p. 8.

Experientiæ attribuit Berkleius. New
Theory of Vision, § 108. 8. *Utr,*

8. *Utr.* Causa assignari possit, quare objecta erecta apparere debeant, quorum imago inversa est in fundo oculi?

Aff. Cartes. Dioptr. c. 6. § 86. *Molyneux* Dioptr. P. ii. c. 7. p. 289.

Ab usu & experientiâ ducit *Berkleius*. New Theory of Vision, § 91, &c.

Neg. Gravesande Phys. Elem. L. iii. c. 10. *Regnault's* Philosoph. Convers. V. II. p. 327.

II. De LUMINE & COLORIBUS.

9. *Utr.* Lumen sit corpus?

Aff. Newtoni Princ. Math. L. ii. S. 8. p. 357. Ejusdem Optice *passim.* *Gravesande* Phys. Elem. L. iii. c. 3. *Gassendi* Opera, V. I. S. I. L. vi. c. 7. *Hooke's* Posth. Works, p. 115. *Worster's* Nat. Philos. p. 177. *Chambers's* Dict. ad voc. LIGHT.

Neg. Lumen in pressurâ materiæ subtilis consistere volunt *Cartesiani.* *Cartes.* Dioptr. c. 1. § 3. *Le Grand* Instit. Philos. P. v. c. 15. *De Chales* Cursus Math. V. II. p. 426. *Robaulti* Phys. P. i. c. 27. § 15. *Burgundia* Philosoph. T. II. p. 948. *Regnault's* Philos. Convers. V. II. p. 284.

10. *Utr.* Corpora & lumen in se mutuo agant?

Aff. Newtoni Opt. L. iii. p. 272. *Pemberton's* View, p. 369. *Shaw's* Abridgm. of *Boyle's* Works, V. III. p. 265.

11. *Utr.* Corpora & lumen in se mutuo possint converti.

Aff. Newtoni Opt. p. 319. *Shaw's* Abridgment of *Boyle's* Works, V. II. p. 232.

12. *Utr.* Successiva sit luminis Propagatio?

Aff. Newtoni Optice, L. iii. S. 3. p. 236, 307. *Boyle's* Works abridg'd by *Shaw*, V. II. p. 58. V. III. p. 186. *Lowthorp's* Abridgment of *Philos. Transact.* V. I. p. 40. *Bradley* de Stellarum fixarum Parallaxi. *Philosoph. Transact.* N^o 406. *Keil* Introd. ad *Astron.* p. 223. *Musschenbroek*. Elem. *Phys.* p. 246. *Whiston* Praelect. *Astronom.* p. 238. *Hooke's* Posth. Works, p. 99.

Neg. Cartesiani. Vid. Libros 2 supra citatos.

13. *Utr.* Color sit connatus lucis proprietatis?

Aff.

Aff. Newtoni Optic. passim. Pemberton's View, &c. p. 324. Lowthorp's Abridgment of Philos. Transact. V. I. p. 128, 173. Gravesande Phys. Elem. Math. L. iii. c. 19. Jac. Ode Philos. Nat. Princ. P. i. p. 273. Clarkii Not. ad Robault. Phys. P. i. c. 27. § 52, 65. Wolfii Elem. Math. Univ. Tom. II. p. 34--37. Musschenbroek Elem. Phys. P. ii. c. 16. Desaguliers in Philos. Transact. N^o 348. Marriotte sur les Couleurs, p. 207.

Neg. Alii colores ex diversis luminis & umbræ confiniis, quibus radii lucis variè modificantur, oriri contendunt. Cartes. Dioptr. c. I. § 4. Boyle on Colours, P. i. c. 2. Shaw's Abridgment, Vol. II. p. 2. Robault. l. c. Sturmii Phys. Elect. Tom. I. p. 419.

14. *Utr. Lumen constet ex radiis refrangibilitate & reflexibilitate diversis?*

Aff. Newtoni Optice, L. i. Prop. 1, 2, 3. p. 15. Ejusdem Lectiones Opticæ, (opus Posthumum) passim. Philosoph. Transact. N^o 84, 85, 88, 128. Lowthorp's Abridgment of Philos. Transact. V. I. p. 128. Miscell. Curios. V. I. p. 97. Pemberton's View, p. 329. Adjungas libros supra citatos.

Neg.

Neg. Cartesiani. Vid supra. Et veterem hypothesin nuper resuscitavit *Joh. Rizzetti* de luminis affectionibus; cujus doctrinam breviter expositam, vid. in the Present State of Republick of Letters, V. II. p. 255. Et refutatam, ibid. p. 423. Philosoph. Transf. N^o 406. p. 596.

15. *Utr.* Æther sit vehiculum lucis?

Aff. Newtoni Optic. Qu. 17--23. Ejusdem Princip. Math. ad calcem. *Worster's* Princ. of Philos. p. 178.

16. *Utr.* Colores compositione procreari posse recte doceat NEWTONUS?

Aff. Newtoni Optic. P. ii. Prop. 4. p. 108. Philosoph. Transf. N^o 96, 97. Unâ cum auctoribus, Quæst. 12. affirmantibus.

17. *Utr.* Admittendæ sint *Newtonianæ* vices facilioris reflexionis & facilioris transmissus?

Aff. Newtoni Optic. p. 240. *Pemberton's* View, p. 371. *Worster's* Nat. Philos. p. 230.

18. *Utr.* Corpora reflectant & refringant lumen diversi modè unâ eâdemque vi, in diversis circumstantiis sese exerente?

Aff.

Aff. Newtoni in Opt. p. 229. *Worster's* Nat. Philos. p. 227. *Clarkii* Not. ad Robault. P. i. c. 27. § 37.

19. *Utr.* Magnitudo partium, ex quibus corpora naturalia constant, æstimari possit ex illorum coloribus?

Aff. Newtoni Optic. p. 217. *Pemberton's* View, p. 350.

20. *Utr.* Corporum naturalium partes minimæ sint pellucidæ?

Aff. Newtoni Opt. p. 210. *Worster's* Nat. Philos. p. 247. *Gravejande* Elem. Phys. Math. L. iii. c. 23. *Pemberton's* View, &c. p. 341.

21. *Utr.* Corporum tenuium pellucidorum colores rectè explicentur a NEWTONO?

Aff. Newtoni Optic. p. 160. *Pemberton's* View, p. 344. *Gravejande* Elem. Phys. L. iii. p. 98.

22. *Utr.* Ea detur analogia inter permanentes corporum naturalium ac tenuium luminarum colores, quæ assignatur a NEWTONO?

Aff.

Aff. Newtoni Optic. p. 207. Gravesande Elem. Phys. L. iii. c. 23. Pemberton's View, p. 348. Clarkii Not. ad Robaulti Physic. P. i. c. 27. § 52.

23. *Utr. Corporum nigrorum particulæ sint admodum tenues & minutæ?*

Aff. Newtoni Optice. Robaulti Physic. P. i. c. 27. § 57, 59.

24. *Utr. Colorum prismatibus exhibitorum rationem recte explicet NEWTONUS?*

Aff. Newtoni Opt. L. i. P. ii. Prop. 8. p. 134. Clarkii Not. ad Robault. Physic. P. i. c. 27. § 57.

25. *Utr. Recte statuit NEWTONUS de inflexionibus radiorum luminis, & coloribus inde generatis?*

Aff. Newtoni Opt. L. iii. p. 272--293. Gravesande Elem. Phys. L. iii. c. 5.

26. *Utr. CrySTALLI Islandicæ refractiones singularem quandam luminis proprietatem ostendant ab aliis hactenus cognitis diversam?*

Aff. Newtoni Opt. Qu. 17. p. 299.

27. *Utr.*

27. *Utr.* Pori transversarii per se sufficiant ad Diaphaneitatem constituendam? Sive,

Utr. Causa opacitatis vera sit, quod motus, per quos lumen transire possit, obtinentur?

Aff. Cartesiani. Robault. Phys. P. I. vol. 27. § 15. Clerici Phys. Liv. c. 8. Philosoph. Convers. V. II. p. 299.

Neg. Newtoni. Opt. B. i. Prop. 10. Pemberton's View, p. 344. Clarke's Not. ad Robault. loc. cit. Gravesande Elem. Phys. L. III. c. 17.

III. QUESTIONES DIOPTRICÆ.

28. *Utr.* Sinus incidentiæ cujusque radii seorsim ad sinum refractionis suæ in data ratione esse debeat?

Aff. Newtoni Opt. L. i. Prop. 6. p. 61. Gravesande Elem. Phys. L. III. c. 6. n. 639. Musschenbroek El. Phys. § 921.

29. *Utr.* Ratio reddi possit, cur radii luminis ex medio rariori in densius oblique incidentes ad perpendicularum, & ex densiori in rariis a perpendicularulo refringantur?

Causam repetunt *Cartesiani* ex eo quod lumen in densiori medio celerius moveatur, quàm in rariori. *Cartes.* Dioptr. c. 2. § 9.

Attractioni attribuunt *Newtoniani*. *New-*
ton. Optic. L. ii. P. iii. Prop. 9, 10. p. 229.
Clarkii Not. ad *Robault.* P. i. c. 27. § 37.
Musschenbroek Elem. Phys. § 888. *Grave-*
sande Phys. L. iii. c. 6.

Aliæ causæ assignantur à *Leibnitzio*. *Acta*
Erud. A. D. 1682. p. 188. & *Bernoullio*.
Acta Erud. A. D. 1701. p. 19. & *Hamelio*
in *Philos. Burgund.* Tom. II. p. 958.

30. *Utr.* Ratio vitrorum utrinque plana-
norum ex principiis opticis explicari possit?

Aff. Honor. Fabri Synops. Opt. p. 110.
Molyneux Dioptr. p. 110. *Gregory's* Dioptr.
Prop. 11. *Gravesande* Elem. Phys. L. iii.
c. 11. *Jac. Ode Philos. Nat.* P. i. p. 265.

31. *Utr.* Ratio Lentium utrinque con-
vexarum ex principiis opticis explicari pos-
sit?

Aff. Molyneux Dioptr. p. 112---142.
Hugen. Op. Posth. p. 125, 146, 155, &c.
Robaulti Phys. L. i. c. 27. § 42. *Grave-*
sande Elem. Phys. L. iii. c. 11. *Worster's*
Nat. Phil. p. 196. *Jac. Ode Phil. Nat.*
P. i. p. 267. *Wolfii* Elem. Math. Univ.
Tom.

Tom. II. p. 231, 242, & seqq. *Gregory's*
Dioptr. Prop. 14, &c.

32. *Utr. Ratio Lentium utrinque conca-*
varum ex principiis opticis explicari pos-
sit?

Aff. Molyneux *Dioptr. p. 142, 154. Hugen.*
Op. Posth. p. 130, 153. Gravesande
loc. cit. Worster's Philos. p. 208. Ro-
baulti Phys. L. i. c. 27. § 44. Jac. Ode
Philos. Nat. P. i. p. 268.

33. *Utr. Vitri multiplici facie incisi ra-*
tio ex principiis opticis explicari possit?

Aff. Robaulti Phys. L. i. c. 27. § 45.

34. *Utr. Ratio Microscopiorum ex prin-*
cipiis opticis explicari possit?

Aff. Molyneux *Dioptr. p. 180. Hugen-*
nii Op. Posth. p. 221—233. De Chales
Cursus Math. Tom. II. p. 673, 689.
Gravesande El. Phys. L. iii. c. 12. Robaulti
Phys. L. i. c. 33. § 15. Jac. Ode Philos.
Nat. P. i. p. 272. Wolfii Elem. Math.
Univ. Tom. II. p. 285—300. Musschen-
broek Elem. Phys. § 1027, 1028.

35. *Utr. Ratio Telescopiorum ex princi-*
piis opticis explicari possit?

Aff. Molineux Dioptr. p. 156---180, 203---207. *Hugen. Oper. Post.* p. 167---196. *De Chales* Cursus Math. Tom. II. p. 667---672. *Gravesande* Elem. Phys. L. iii. c. 12. *Philos. Transf.* A. D. 1665. *Lowthorp's* Abridgment, V. I. p. 189, 191, 193. *Hevelii* Machina cœlestis, Tom. I. c. 21. *Gregory's* Dioptricks. *Newtoni* Optic. L. i. P. i. p. 85. *Hartsoecker* Tent. Dioptr. c. 9.

De inventione Telescopii, vid. *Paschius* de inventis novo-antiq. p. 523. *Borellus* de invent. Telesc. c. 11---14.

36. *Utr.* Ratio explicari possit, quomodo myopum & presbytarum oculorum vitiis à lentibus succurrendum est?

Aff. Molineux Dioptr. p. 108. *De Chales* Cursus Math. Tom II. p. 361---370. *Robaulti* Phys. P. i. c. 33. § 18. *Jac. Ode* Philos. Nat. P. i. p. 263. *Kepler* Dioptr. Prop. 64. *De la Hire* in Act. Erud. A. D. 1695. p. 497---501. *Wolffii* Elem. Math. Univ. Tom. II. p. 72---83. *Sturmi* Philos. Elect. Tom. II. Exerc. 10. *Hamberg.* Dissert. Acad. iv. *Gravesande* Elem. Phys. L. iii. c. 11.

37. *Utr.*

37. *Utr.* Conspicilla tubulata, quo minus omnibus numeris perfecta construi queant, faciat diversa radiorum refrangibilitas?

Aff. *Newtoni* Opt. L. i. Prop. 7. p. 66. *Ejusdem* Lect. Optic. P. i. S. 2. § 29. *Hugenii* Op. Post. p. 202. *Clarkii* Not. ad *Robault*. Phys. P. i. c. 33. § 28. *Pemberton's* View of Sir *Is. Newton's* Phil. p. 390. *Lowthorp's* Abridgment of Philos. Trans. V. I. p. 189.

IV. QUÆSTIONES CATOPTRICÆ.

38. *Utr.* Reflectio luminis oriatur ex impactione ejus in solidas corporum particulas?

Aff. *Cartes. Dioptr.* c. 2. § 1. *Robaulti* Phys. P. i. c. 27. § 35.

Neg. *Newtoni* Optic. L. ii. P. iii. Prop. 8. *Pemberton's* View, p. 339. *Clarkii* Not. ad *Robault*. loc. cit. *Worster's* Nat. Philos. p. 226. *Musschenbroek*, § 878. *Gravesande* Phys. L. iii. c. 13.

39. *Utr.* Angulus reflectionis angulo incidentiæ æqualis esse debeat?

Aff.

Aff. Cartes. Dioptr. c. 2. § 3. Philos. Burgund. Tom. II. p. 954. Robaulti Phys. P. i. c. 15. § 3. Jac. Ode Philos. Nat. P. i. p. 257. Gregory's Catoptrics, Prop. 1.

40. *Utr. Speculi plani proprietates ex principiis opticis explicari possint?*

Aff. Robaulti Phys. P. i. c. 34. De Chales Cursus Math. Tom. II. p. 542--554. Tacqueti Catoptr. L. iii. Franc. de Lanis Mag. Nat. & Art. Tom. II. p. 140. Wolfii Elem. Math. Univ. Tom. II. p. 125, &c. Hamelii Histor. Acad. Reg. p. 144, 157, 183. Acta Eruditor. Lipsiens. A. D. 1707. p. 139. Jac. Ode Philos. Nat. P. i. p. 257. Gravesande Elem. Phys. L. iii. c. 14. Worcester's Nat. Philos. p. 232. Chambers's Dict. ad voc. REFLECTION.

41. *Utr. Proprietates speculi convexi ex principiis opticis explicari possint?*

Ne tædio essemus & lectoribus & nobis repetendo, cons. scriptores supra citatos.

42. *Utr. Proprietates speculi concavi ex principiis opticis explicari possint?*

Vid. Auctores ubi supra.

43. *Utr.*

43. *Utr. Telescopia catoptrica* sint ad usum astronomicos dioptrici accommodatiora?*

Præclarum hoc instrumentum à NEWTONI inventionem originem duxit. *Newtoni Optic. L. i. Prop. 8. p. 90. Lowthorp's Abridgment of Philos. V. Lib. p. 197, 200, 210. Pemberton's View, B. iii. c. 5. p. 393. Chambers's Diction. ad voc. TELESCOPE.*

44. *Utr. Multiplex lucernæ imago in speculo plano apparens solvi possit ex principis opticis?*

Cùm nemo Philosophorum, quem scio † hoc Phænomenon explicuit, ejus solutionem reddere conabor.

Phænomenon sic se habet. Ponatur lucerna in tali situ ut ejus radii reflectantur ad oculum spectatoris ad angulum obliquum. Spectator observabit duas, tres, vel quatuor, aliquando etiam quinque, sex vel plures imagines in speculo, quarum una est maxime vivida, cæteræque minùs minùsque lu-

* Anglicè, *Reflecting Telescopes.*

† Nuper mihi narravit vir doctus hoc Phænomenon explicatum dedisse *De La Hire* in *Memoires de l'Acad. A. D. 1669.* Sed mihi librum videre non contigit.

cidæ, adeo ut ultima sit valdè languida & imperfecta.

Facile patet duas imagines reflecti à duabus vitri superficiebus, scil. maximè vividam ab ulteriori, proximam in splendoris gradu à citeriori. Et cum in unoquoque radiorum ex uno in alterum medium transitu non omnis radiorum copia vel reflectitur, vel transmittitur (utpote quidam sint in *vice facilioris reflexionis*, quidam in *vice facilioris transmissus* *) ideo sequitur radios, qui sunt in *vice facilioris reflexionis* cum egressuri sunt è citeriori vitri superficie, iterum reflecti debere, adeoque post tres reflexiones emergere, & ad oculum pervenire, tertiamque lucernæ imaginem depingere. Eodem modo alii erunt radii, quorum nonnulli non nisi post quintam reflexionem ad vitri superficiem pervenient in *vice facilioris transmissus*, unde quarta imago depingetur. Alii iterum erunt, quorum nonnulli non nisi post septimam reflexionem emergent, & quintam efficiunt imaginem, & sic deinceps usque dum omnes vel reflectantur vel dispergantur radii.

Hanc solutionem tanquam ex conjecturâ solum propono. Non enim sufficiens da-

* Vid. supra, Qu. 171

tur experimentorum copia, ut firmo pede stabilietur hæc hypothesis; mihi vero videtur omnia in hac re Phænomena, quæ hætenus observata fuerunt, juxta *Theoriam Newtonianam* satis apte explicare.

V. QUÆSTIONES MISCELLANÆ
OPTICÆ.

45. *Utr.* Iridis primariæ Phænomena solvantur ex diversâ radiorum refrangibilitate?

Aff. *Newtoni* Opt. p. 139. *Pemberton's* View, p. 394. *Clarkii* Not. ad *Robault*. Phys. P. iii. c. 17. *Boyle's* Works abridg'd by *Shaw*, V. I. p. 143. *Jac.* Ode Philos. Nat. P. ii. p. 180. *Hamberg.* Dissert. Acad. iii. *Gravesande* Elem. Physic. L. iii. c. 21. *Halley* on the Rainbow, Philos. Transact. N^o 267. *Chambers's* Diction. ad voc. RAINBOW.

Neg. Repetit *Cartesius* varietatem colorum Iridis a globulis secundi elementi circa centrum suum gyrañtibus. *Cartes.* Meteor. c. 8. *Robault* l. c. *Philos.* *Burgund.* Tom. I. p. 1058.

Vult *Gassendus* varietatem colorum a lucis ad nos reflectione cum variæ umbræ admistione ducere. *Gassendi* Opera, T. II. L.

ii. c. 6. *Chauvini* Lexicon, ad vocem
IRIS.

46. *Utr.* Iridis secundariæ internæ Phæ-
nomena explicari possint ex principiis op-
ticis?

Aff. *Pemberton's View*, p. 401. Philo-
soph. Trans. N^o 375.

De Parheliis, Paraselenis & ejusmodi
Meteoris, vid. supra, Cap. 4. Qu. 4.

47. *Utr.* Præjudicio attribuendum sit,
quod res objecta per lentem convexam visa
valde propinqua videatur?

Aff. *Clarkii* Not. ad *Robault*. Phys. P.
i. c. 33. § 7. *Berkley's New Theory of*
Vision, § 30--40.

Ambig. *Barrow* Lect. Opt. xviii. sub
finem. *Tacquet* Catoptr. L. iii. Prop. 22.
Molyncux Dioptr. P. i. Prop. 31. S. 9.

48. *Utr.* Apparens oceani ascensus a li-
tore solvi possit ex principiis opticis?

Aff. *Varen.* Geogr. Gener. L. iii. c. 13.
Prop. 3.

49. *Utr.* Crepusculi Phænomena solvi
possint ex principiis opticis?

Aff. *Varen.* Geograph. Gen. L. iii. c.

19. Prop. 36, 37, 38. *Keil. Astronom.*
L. 20.

50. *Utr. Camerae obscuræ Phænomena*
ex principiis opticis solvi possint?

Aff. Sturmii Coll. Curios. p. 7---14.
Auctar. p. 9---11. Honorat. Fabri Synops.
Opt. p. 34. De Chales Curs. Math. Tom.
II. p. 345. Molyneux Dioptr. p. 36. Jac.
Ode Philos. Nat. P. i. p. 233. Wolfii
Elem. Math. Tom. II. p. 243. Grave-
sande Elem. Phys. L. iii. c. 10.

51. *Utr. Laternæ magicæ Phænomena*
ex principiis opticis solvi possint?

Aff. Wolfii Math. Elem. Tom. II. p.
305. Gravesande Elem. Phys. L. iii. c. 16.
Jac. Ode Philos. Nat. P. i. p. 235.

52. *Utr. Lunæ Horizontalis Phæno-*
mena ex principiis opticis solvi possint?

Varias Hypotheses excogitarunt Philoso-
phorum ingenia, ut hujusce Phænomeni so-
lutionem reddant.

I. Principem locum obtinet Hypothesis
Cartesiana; quæ in eo fundatur, quod occur-
rant inter Lunam juxta Horizontem veriatam
& oculos nostros diversa objecta, quæ judi-
cium de distantia melius informant; unde

longius diffita videtur, & ea propter major.
Cartes. Dioptr. c. 6. § 21. Malebranche's
Search after Truth, B. ii. p. 263. Robaulti
Phys. P. i. c. 32. § 23. Gravesande El.
Phys. L. iii. c. 11. Musschenbroek Epit.
Phys. § 977. Eidem adsentitur & plenius
explicat Wallisus. Philosoph. Transact. N^o
187. Lowthorp's Abridgment, V. I. p.
225. Miscellan. Curios. V. II. p. 263.

II. Ex dilatatione pupillæ oculi ob debi-
 liorem lunæ horizontalis lucem solvit *Gas-*
sendus. Vid. Epistolas quatuor in Oper.
Tom. III. Scheiner de Oculo.

III. Causam ex eo oriri vult *Hobbesius*,
 quod cum oculus sit in superficie non in
 centro terræ, magis distet ab Horizonte,
 quam à summo culmine. *Hobbs de Homine,*
c. 3. § 7.

IV. Solvit *Ricciolus* ex eo quod angulus
 horizontalis major sit verticali. *Almag.*
Nov. L. x. S. 6.

V. Sunt, qui refractioni attribuunt.
Roger. Bacon. Perspect. P. iii. dist. 2. c. 4.
Petzani Perspect. commun. L. iii. Prop.
12. Aliique quos recenset Ricciolus in loc.
citat.

Omnes hæc solutiones ad examen revo-
 cat, & funditus evertit *Molyneuxius* in *Act.*
Philos. in loc supra citat.

CAPUT VIII.

QUÆSTIONES ASTRONOMICÆ.

I. De SYSTEMATE MUNDANO.

1. UTRUM systema *Copernicanum* sit verum mundi systema?

Aff. Nic. Copernicus in *Revol. Orb. Cœlest.* L. i. c. 10. *Galilæi* *Systema Cosmicum*, Dial. 3. *Le Grand* *Instit.* Phil. P. vi. *Varenii* *Geograph.* L. i. c. 5. *Keil.* *Introd. ad Astronom.* L. iii, iv. *Derham's* *Astro-Theology.* *Gravesande* *Elem. Phys.* L. iv. *Whistoni* *Prælect.* *Astron.* & (ut verbo complectar) fere quotquot inter recentiores & melioris notæ Philosophos numerantur.

Tria notissima systemata, scil. *Copernici*, *Ptolemæi*, & *Tychonis* exponunt *Riccioli* *Almagest.* Nov. *Gassendi* *Astron.* *Cartes.* *Princ.* P. iii. *Robaulti* *Phys.* P. ii. *Jac.* *Ode* *Philos. Nat.* P. ii. p. 245. *Buddei* *Philos. Theor.* P. iv. c. 1. *Philos. Burgund.* Tom. II. p. 938. *Wells's* *Astronomy.*

2. *Utr.*

2. *Utr.* In systema mundanum admit-
tendi sint orbes solidi & epicycli?

Aff. Qui *Ptolemæi* systema tuentur.
Vid. *Gassendi* Astron. L. ii. c. 3. aliosque
supra citat.

3. *Utr.* Planetæ in orbitis deferantur ope
materiæ fluidæ in modum vorticis circum-
gyrantis?

Aff. *Cartesii* Princ. P. iii. § 31. & *passim*.
Ejusdem Epist. *passim.* *Senguerdi* Philos.
Nat. P. ii. c. 2. § 6. *Andala*, P. iii.
Exerc. 11. *Sturmii* Philos. Elect. Tom.
II. p. 1024. *Robaulti* Phys. P. ii. c. 25.

Neg. *Newtoni* Princ. Math. L. ii. S. 9.
Prop. 51, 52, 53. cum schol. p. 384. &
p. 481, 526. Ejusdem Optic. Qu. ult.
Pemberton's View, B. ii. c. 1. p. 167.
Clarkii Not. ad *Robault*. loc. cit. *Gregorii*
Elem. Astron. L. i. S. 8, 9. *Whistoni* Præl.
Astron. Lect. xxiv. *Gravesande* Elem.
Phys. L. iv. P. ii. *Clerici* Phys. L. i. c.
6. *Jac.* Ode Philos. Nat. p. 258.

Utramque Theoriam breviter exponit
M. Maupertuis de figuris corporum cœle-
stium. Vid. *Keil's* Remarks on *Burnet's*
Theory, 2d Edit. Dissertat. ad calcem.

4. *Utr.*

4. *Utr.* Planetæ retineantur in orbitis vi gravitatis & motu projectili?

Aff. *Newtoni* Princ. L. iii. *Gregorii* Astron. L. i. *Pemberton's* View, L. ii. c. 2. *Domckii* Philos. *Newton.* Tom. II. p. 37. *Whiston's* Theory of the Earth, B. i. *Ejusdem* Prælect. Phys. Math. Lect. 12. *Cheyne's* Philos. Princ. c. 2. *Derham's* Astro-Theol. B. vi. Adjungas auctores supra citat.

Neg. Qui affirmant in Qu. præc.

5. *Utr.* Planetæ sint habitabiles?

Aff. *Derham's* Astro-Theology, Prelim. Disc. *Huygen's* Planetary Worlds; vel *Cosmotheoros* in Oper. 4to, p. 645. *Fontenelle's* Plurality of Worlds.

Neg. *Reflections on Learning*, ch. 8.

De Lunâ habitabili vid. porro, Qu. 13.

6. *Utr.* Planetarum stationes & regressiones ex motu apparenti solvantur?

Aff. *Keil.* Astronom. L. 15; 16. *Le Grand* Instit. Phil. P. v. c. 19.

Neg. Qui Epicyclos tuentur. Vid. supra, Qu. 2.

7. *Utr.* Planetæ moveantur in ellipsis umbilicum habentibus in centro solis?

Coper-

Copernicus Planetas in circulis moveri statuit. Vid. supra, Qu. i.

Keplerus eorum orbitas ellypticas esse invenit.

Newtonus illorum motuum causas physicas primus explicuit. Princ. Math. L. iii. Prop. 13. Conf. Auctores citat. in Qu. 3. 4.

II. De SOLE.

8. *Utr.* Motus solis circa proprium axem ex motu ejus macularum colligi possit?

Aff. Riccioli Almag. Nov. Tom. I. p. 98. *Keil.* Astronom. Lect. v. *Le Grand* Instit. Philos. P. v. c. 16. *Jac.* Ode Philos. Nat. Princ. P. ii. p. 5.

Neg. Sunt, qui maculas volunt esse Planetas à sole haud multum remotos. *Guerickii* Syst. Mundi, L. i. c. 13. *Schotti* Prælus. in Itin. *Kircheri*, p. 184.

9. *Utr.* Maculæ solares sint nubes ex concretis solis exhalationibus conflatae?

Aff. Renaldinus in Act. Erud. Suppl. Tom. II. p. 451. *Hooke* in Act. Erud. A. D. 1707. p. 151. *Wolfii* Elem. Math. Univ. Tom. II. p. 461. Aliique quos memorat *Schottus* in loc. cit.

10. *Utr.*

10. *Utr.* Soli competit atmosphæra?

Aff. *Gregorii* Astron. L. v. *Newtoni* Princ. p. 514. *Philos. Transact.* N^o 431. p. 255. Vid. infra, Qu. 31.

11. *Utr.* Eclipsis solaris oriatur ab interpositione Lunæ?

Aff. *Whiston.* Prælect. Astron. *Wolf.* El. Math. Univ. Tom. II. p. 579. Cæterique qui Astronomiam tractârunt.

12. *Utr.* Optima methodus inveniendi solis distantiam sit à Lunâ dichotomâ?

Aff. *Whistoni* Prælect. Astron. p. 67. *Wolfii* Elem. Math. Tom. II.

Neg. Alia methodus à Parallaxi Martis petita est, quam meliorem æstimat *Keil.* Astronom. Lect. 22. Utramque exponit *Jac.* Ode Philos. Nat. P. ii. p. 13.

III. De L U N A.

13. *Utr.* Luna sit habitabilis?

Aff. *Derham's* Astro-Theol. Prelim. Disc. p. 49. *Bentley's* Sermons at *Boyle's* Lecture, Sermon. viii. *Wolfii* El. Math. Tom. II. p. 472. *Paschius* de Novo-Invent. p. 517. *Jac.* Ode Phil. Nat. P. ii. p. 198.

R

Ambig.

Ambig. Sturmii Phys. Elect. Tom. II. p. 894. Reflections on Learning, c. 8.

14. *Utr.* Luna circa proprium axem revolvatur?

Aff. Jac. Ode Philos. Nat. P. ii. p. 201. *Keil.* Astron. Lect. 5.

15. *Utr.* Luna Atmosphærâ circumdetur?

Aff. Wolfii Elem. Math. Tom. II. p. 465. *Jac.* Ode Philos. Nat. P. ii. p. 195. *Derham's* Astro-Theol. Prelim. Disc. p. 49. *Chambers's* Dictionary, ad voc. MOON.

Neg. Hugen. Cosmoth. L. ii. p. 114. *Acta Eruditor.* A. D. 1706. p. 33. *Keil.* Astron. L. x.

16. *Utr.* Lunæ partes obscuriores sint aquæ?

Aff. Hevelii Selenogr. p. 150. *Galilæi* Syst. Cosm. Dial. 1. p. 88. *Sturmii* Phys. El. T. II. p. 56. *Derham's* Astro-Theol. loc. cit. *Gassendi* Phys. L. iv. S. 2. c. 3. *Cassinus* apud *Fontenelle* de Mund. Plural. P. 42.

Neg. Hugen. Cosmoth. p. 114. *Keil.* Introd. ad Astron. Lect. 10. p. 117.

17. *Utr.*

17. *Utr.* Lunæ cum Sole ferè conjunctæ lux secundaria â terrâ proveniat?

Aff. Riccioli Almag. Nov. Tom. I. p. 200. Robaulti Phys. P. ii. p. 214. De Chales Cursus Math. T. III. p. 367. Keil. Astronom. Lect. ix. Cartes. Princ. P. iii. § 12. Jac. Ode Philos. Nat. P. ii. p. 206. Hevelius in Act. Eruditor. A. D. 1682. p. 109.

18. *Utr.* Luna deficiens atmosphæræ terrestres umbrâ obscuretur?

Aff. Whistoni Prælect. Astron. p. 140. Tacquet Astron. L. iv. n. 17. Riccioli Almag. Nov. T. I. L. v. p. 305. Kepleri Astron. Opt. p. 268. Jac. Ode Philos. Nat. P. ii. p. 205.

19. *Utr.* Motus Lunæ libratorius ex ipsius motu diurno oriatur?

Aff. Newtoni Princ. L. iii. Prop. 16. Keil. Introd. ad Astron. L. x. Riccioli Almag. Nov. Tom. I. p. 205. Sturmii Physic. Elect. Tom. II. p. 911.

Neg. Cartesius causam hujusce motus in eo ponit, quod pars Lunæ a nobis averſa majori soliditate polleat, quam illa, quæ nobis obvertitur. Princip. P. iii. § 152.

Sturmius ab æthereo quodam vortice circa Lunam versato solvit. *Phys. Elect.* Tom. II. p. 915.

20. *Utr.* Inæqualitates motuum lunarium solvi possint ex theoriâ gravitatis?

Aff. Newtoni Princ. L. i. Prop. 66. p. 170. *Pemberton's View*, B. ii. c. 3. *Gregorii Astron.* L. iv. *Whistoni Prælect. Physico-Math.* L. xx. *Domckii Philos. Newtonian.* Tom. II. p. 82. *Gravesande Elem. Phys.* L. iv. c. 16.

21. *Utr.* Lunæ autumnalis * Phænomena solvantur ab inclinatione orbitæ lunaris ad Horizontem?

Cum nullus mihi occurrat auctor, qui hujusce Phænomeni fere ab omnibus observati solutionem reddidit, me haud inutilem tyronibus operam præstaturum esse duco, si id breviter explicatum dederò.

Notissimum est lunam tempestate autumnali, cum juxta oppositionem versetur, vel ad eundem temporis articulum (ut in borealibus regionibus fieri potest) vel paulo tardiùs de nocte in noctem oriri. Id vero ex eo fit, quod lunaris orbita vel eclips-

* Vulgò, *The Harvest-Moon.*

tica (quas impræsentiarum coincidere supponatur) tunc temporis horizontem interfecet angulo omnium minimo. Etenim ponatur Sol in *Libra* & circa Horizontis partem occidentalem, Luna in *Ariete* & circa orientalem. Perficiatur integra telluris rotatio; ea peracta, eundem quem prius inter se situm obtinere debent Ecliptica & Horizon: sed cum Luna interim in orbita, *i. e.* in consequentia promoveatur, ideo infra Horizontem deprimetur, unde eam quotidie tardiùs oriri oportet. Liquidò autem constat hanc depressionem eò minorem esse, quò minore angulo ecliptica horizontem interfecat. Cum igitur angulus iste sit tempore æquinoctii autumnalis omnium minimus, ideo fit quod differentia temporis inter successivos lunares ortus tunc erit omnium minima.

Hactenus supposuimus lunarem orbitam cum ecliptica coincidere, cum autem reverà ab ea declinat ad angulum circiter quinque graduum, varia erit differentia memorata pro vario nodorum situ. Si nodus ascendens primum *Arietis* gradum, *i. e.* horizontem orientalem occupet, angulus inter horizontem & orbitam lunarem comprehensus quinque gradibus minor erit, quam si Luna Eclipticam occupaverit, ideoque differentia in hoc casu erit omnium minima,

ma, & fere nulla: pari ratione major erit pro majori distantia nodi (ab hoc puncto.

IV. De T E L L U R E.

22. *Utr. Telluris figura sit sphæroidica?*

Terram globosam dixisse primus fertur *Parmenides*. *Diog. Laert.* L. x. S. 21.

Quam opinionem, adductis rationibus, tue-
tur *Aristoteles*. De Cœlo, L. ii. c. 14.

Eam non esse exactè sphæricam, sed sphæ-
roidicam, adeo ut maxima diameter per
æquatorem transeat, probarunt *Hugen.* in
Discursu de causis gravitatis, p. 154. *New-*
toni Princip. L. iii. Prop. 19. p. 412. *Cle-*
rici Phys. L. i. c. 8. *Jac. Ode* Phil. Nat.
P. ii. p. 34. *Gravesande* Elem. Phys. L.
iv. c. 17. *Whistoni* Prælect. Physico-Math.
p. 300. *Varenii* Geograph. English'd by
Shaw, V. I. B. i. c. 3. p. 28. Note b.
Hook's Posth. Works, p. 349, 356, 371,
455. *Keil's* Examination of *Burnet's*
Theory, p. 258. *Maupertuis's* Dissertation
on the Figure of the Cœlest. Bodies, p. 1.
quæ 2dæ Editioni *Keilii* subjungitur.

Quidam sunt Philosophi, qui maximam
telluris diametrum per polos transire docent.

Burnet's

Burnet's Theory of the Earth. Histoire de l'Acad. p. 433. Becmanni Histor. Orbis Terr. c. i. § 10.

23. *Utr.* Telluris figura, situs vel inclinatio axis ad Eclipticam in melius mutari possint?

Numero pæne infiniti sunt auctores, qui hanc materiam cum laude tractarunt. Præcipuos nominare fatis duco. *Ray on the Creation. Derham's Astro-Theol. Newton's Religious Philosopher. King de Origine Mali, Cap. 4. S. 5. Mr. Law's Notes, ibid. Cheyne's Philos. Princip. of Religion, Ch. 3. Bentley's Boyle's Lect. Serm. viii. Grew's Cosmologia Sacra. Dr. J. Clarke's Boyle's Lectures.*

Antediluvianum telluris statum præfenti præferendum esse contendunt *Whistonus & Burnettus*. Quorum Theorias ad examen revocat, & multo cum ingenio refellit *Keil*. Vid. *Examination of Burnet's and Whiston's Theories*.

Vid. supra, Cap. 2. Qu. 29.

24. *Utr.* Tellus rotetur circa axem?

Aff. Quotquot sunt, qui systema Copernicanum tuentur. Vid. supra, Qu. 1.

25. *Utr.*

25. *Utr.* Præcessionis punctorum æquinoctialium causa Physica recte exponatur à NEWTONO?

Aff. Newtoni Princ. Math. L. iii. Prop. 21, 39. Gregorii Astron. L. ii. Prop. 31. Whistoni Prælect. Physico-Math. Gravesande Elem. Phys. L. iv. c. 18.

Conf. Auctores citat. ad Qu. 3, 4.

26. *Utr.* Motus Telluris annuus ex Parallaxi stellarum fixarum probari possit?

Aff. Hook, Flamsteed, Cassini, &c. Gregorii Astron. p. 184. Wallis Op. Math. V. III. p. 701. Philosoph. Transf. N^o 406. p. 637.

Neg. Riccioli Almag. Nov. Tom. I. p. 451. Whistoni Prælect. Astron. p. 33.

V. MISCELLANÆ ASTRONOMICÆ.

27. *Utr.* Hugonii Hypothesis ad explicanda Saturni Phænomena recte excogitetur?

Aff. Hugon. System. Saturn. p. 45. in Oper. 4to, p. 535. Riccioli Astron. Reform. p. 367. Whistoni Prælect. Astron. p. 235.

28. *Utr.*

28. *Utr.* Causa variarum annuli Saturniani Phasium vera assignetur ab *Hugenio*?

Aff. *Hugen.* System. Saturn. in Op. p. 571. *Gregorii* Astron. L. 4. Prop. 69.

Neg. *Riccioli* Almag. Nov. L. vii. *Hevelius* de annulo Saturni.

29. *Utr.* Successiva lucis propagatio ex eclipsibus Satellitum Jovis colligi possit?

Aff. *Whistoni* Præl. Astron. p. 227. *Lowthorp's* Abridgment, Vol. I. p. 409. *Keil.* Introd. ad Astron. L. xvi. p. 222.

30. *Utr.* Cometæ sint Meteora?

Aff. Plerique veteres. *Aristot.* Meteor. L. i. c. 6. *Plutarch.* de Placit. Philos. L. iii. c. 2. *Senec.* Nat. Quæst. L. vii. c. 3.

Neg. Omnes recentiores. *Keplerus*, *Hevelius*, & *Cartesius* cometas in rectis trajicere statuunt: alii rectius eos in eclipsibus moveri, quarum umbilicus alter est sol. *Newtoni* Princ. L. iii. Prop. 40. *Gregorii* Astron. L. i. Prop. 35.

31. *Utr.* Cometæ Cauda sit (juxta NEWTONUM) vapor longe tenuissimus, quem nucleus per calorem suum emittit?

S

Aff.

Aff. Newton. Princ. Math. p. 506. Gregorii Astron. L. v. Prop. 4. Dr. Pemberton's View, p. 238. Clarkii Not. ad Robault Phys. P. ii. c. 26. Keil. Introd. ad Astron. Lect. 18. Whistonii Prælect. Physico-Math. Lect. 38. p. 320. Clerici Phys. L. i. c. 11.

Aliorum variæ sunt Hypotheses.

I. Ascensum caudæ ascribit *Keplerus* actioni radiorum lucis materiam atmosphæræ cometicae secum rapientium. Vid. apud *Newton. Princ. p. 514.*

II. Alii censent Solis radios per pellucidum Cometæ corpus propagatos in illo, velut in lente vitrea, refringi, ac jubaris speciem præbere spectandam. De hisce vid. *Gregorii Astron. L. v. p. 504.*

III. *Cartesiani* caudam ortam esse volunt à refractione lucis in ejus progressu à capite ad spectatoris oculum. *Cartes. Princip. L. iii. § 120--140. Le Grand Instit. Phil. P. v. c. 17. § 12.*

IV. De *Hvelii* opinione, (qui à veritate haud longe remotus est) Vid. *Cometogr. L. vii, viii. Sturmii Phil. Elect. Tom. II. Exerc. 3. c. 3.*

De variis horum opinionibus cons. *Jac. Ode Philos. Nat. P. ii. p. 225.*

32. *Utr.* Cometæ sint eventuum futurorum prænuncii & signa?

Neg. Bayle's Reflections on a Comet. *Gassendi* Phys. S. ii. L. v. c. 3. Plura de hac re collegit *Jac.* Ode Phil. Nat. P. ii. p. 241.

33. *Utr.* Corpora cœlestia in animalium corporibus quasdam producant mutationes.

Aff. *Le Grand* Phys. Instit. P. v. c. 24. *Buddei* Philos. Theor. P. iv. c. 5. *Mead's* Disc. concerning the Action of the Sun and Moon on animal Bodies. *Miscell. Curios.* V. I. p. 371.

34. *Utr.* Judiciaria astrologia sit admit-
tenda?

Neg. *Cicero* de Divin. L. ii. c. 99. *Gassendus* in *Diog. Laert.* Tom. I. p. 488. *Bernoulli* Syst. Comet. p. 68. Multa de hac re erudite differit *Jac.* Ode Philos. Nat. P. ii. p. 235.

35. *Utr.* Stellæ periodicæ sint erraticæ?

Aff. *Derham's* Astro-Theology, B. ii. c. 3.

Neg. *Keil*, Introd. ad Astron. Lect. vi. p. 56.

CAPUT IX.

QUÆSTIONES LOGICÆ.

I. **U**TRUM Logica sit ars?

Aff. Burgersdicii Institut. Log. L. i. c. i. Aldrich's Logic, Compend. p. 106.

Neg. Logicam esse scientiam propriè dictam docent Hamelius. Philos. Burgund. Tom. I. p. 56. Eustachius in Summa Philosophiæ, p. 4.

Nec artem esse nec scientiam contendit Smiglecus, sed vere & propriè instrumentum scientiarum. *Smigl. Log. Disp. 2. Qu. 5. p. 80.*

Hanc meram esse λογوماχίαν ostenditur in Elem. Logicæ. Introd *.

2. *Utr.* Objectum Logicæ sint operationes intellectûs quæ dirigibiles?

Aff. Smiglecii Log. Disp. 2. Qu. 1. p. 48. Philos. Burgund. Tom. I. p. 54. Bur-

* Ne mirentur lectores, quem librum intelligo sub titulo *Elem. Logicæ* citatum, sciant velim me novam Logicæ Institutionem jam prelo parare, quam brevi in lucem emittere mihi in animum induxi,

gersdicii

gersdicii Institut. Log. L. i. c. i. *Eustachii* Summa Philos. p. 7.

3. *Utr.* Operationum mentis recte instituat^r divisio ternaria?

Aff. *Philos. Burgund.* Tom. I. p. 51. *Eustachii* Logic. p. 10. Qu. 5. *Sanderſon's* Logicæ Compend. L. i. c. i. *Wolfii* Log. P. i. c. i. p. 130. *Smiglecii* Logic. Disp. 2. Qu. 1. *Walliſii* Instit. Logicæ, c. i.

Neg. Plerique e recentioribus Philosophis operationes mentis & perinde Logicam in quatuor partes distribuunt. *Gaſſendi* Logica. *Ars cogitandi.* *Crouſaz* Systema Logicæ. *Clerici* Logica. *Watts's* Logic. *Elementa* Logicæ. *Le Grand* Instit. Log.

4. *Utr.* Logica fit neceſſaria ad ſcientias acquirendas?

Aff. *Smiglecii* Log. Disp. 2. Qu. 7. p. 97. *Wolfii* Logica, Proleg. § 20. P. ii. S. 2. *Le Grand* Phil. Instit. P. i. c. i. *Philos. Burgund.* Tom. I. p. 61. *Sanderſon* de uſu Logicæ, Append. prima ad Log. Compend. Elem. Log. Introd. *Eustach.* Summa Philos. p. 9.

Neg. *Gaſſendi* Exercitat. i. in Dialectic. *Aristot.* Oper. Tom. III. p. 149--156.

5. *Utr.*

5. *Utr.* Prima mentis operatio sit capax directionis?

Aff. *Smiglecus*, *Disp.* 3. *Quæst.* 5. p. 114.

6. *Utr.* Aliquid sit in intellectu, quod non fuit prius in sensu?

Aff. *Lee* contra *Locke*, B. ii. c. 1. *Ars cogitandi*, P. i. c. 1. *Le Grand Phil. Instit.* P. i. c. 2. p. 13.

Neg. *Aristot.* *Met.* L. i. in *Oper.* Vol. IV. p. 281. *T. Aquin. Summ.* P. i. Qu. 84. Art. 6. *Locke's Essay on Hum. Und.* B. ii. c. 1.

In quo sensu intelligi debet vid. *Elem. Log.* L. i. c. 1. S. 3. Not.

7. *Utr.* Quinque sint Prædicabilia?

Aff. *Omnes Peripatetici.*

Neg. *Gassendus* in *Aristot. Dialect. Exerc.* 2. Art. 6.

8. *Utr.* Naturæ in singularibus existentes sint re ipsa universales?

Aff. *Platonici.* *Proclus* in *Platonis Parmen.* *Plutarchi Placit. Philos.* L. i. c. 3, 10.

Neg.

Neg. Peripatetici. Aristot. Met. L. iii. c. 5. Et qui Philosophum timentur, Thomista. Adeas Smigleci Logie. Disp. iv. Qu. 2. Philos. Burgund. Tom. I. p. 67. Eustach. Log. p. 23. Et Thomistarum & Scotistarum sententias summam tradidit Chauvius, in Lexic. Ration. ad vocem UNIVERSALIS.

Universalia esse mera nomina appellativa vult *Gassendus. In Dialect. Aristot. Exerc. 2. Art. 3.*

9. *Utr. Universalia fiant per abstractionem?*

Aff. Scotus, Durandus, & plerique scholastici. Smigleci Log. Disp. 4. Qu. 8. Philos. Burgund. Tom. I. p. 67. Norris's Ideal World, P. ii. c. 8. Locke's Essay on Hum. Und. B. ii. c. 2. § 9. B. iii. c. 3. § 9. B. iv. c. 12. § 3. Mr. Clarke's Father Examination of Dr. Clarke's Notions of Space, c. 2. King de Origine Mali, English'd by Law, Note r. Watts's Logic, P. i. c. 3. § 3. Clerici Log. p. 1. c. 6. Rem fuse tractatam vid. in Elem. Log. P. i. c. 1. § 3.

Neg. Sunt qui per comparisonem universalia fieri volunt. Dr. Berkley on the Principles of Hum. Knowledge. Minute Philo.

Philosopher, V. II. Dial. 7. Defence of the Analyst, p. 56. Bishop *Brown* on the Procedure and Limits of Hum. Underst. B. ii. c. 4. p. 186. Utramque hypothesein exponit *Chambers*, ad voces ABSTRACT & GENERAL.

10. *Utr.* Res sint vere universales ante omnem operationem intellectûs?

Aff. *Eustach.* Log. p. 25.

Neg. *Smiglec.* Log. Disp. 4. Qu. 2. p. 135. *Locke's* Essay, B. iii. c. 6. § 11. *Elem. Logicæ*, P. i. c. 1. S. 5.

Vid. supra, Qu. 8.

11. *Utr.* Genus & species sint entia rationis?

Aff. *Smiglecii* Log. Disp. 5. Qu. 1, 2. *Locke's* Essay, B. iii. c. 6. § 11. *Elem. Logicæ*, P. i. c. 1. S. 5. *Philos. Burgund.* Tom. I. p. 96.

12. *Utr.* Genus in unica specie, vel species in unico individuo conservari possit?

Aff. *Philos. Burgund.* Tom. I. p. 100. *Aldrich's* Logic. Compend. p. 109.

Neg. *Eustachii* Log. p. 31.

13. *Utr.* Detur differentia cum specie reciproca?

Aff.

Aff. Philos. Burgund. Tom. I. p. 104.

14. *Utr. Distinguantur species a se invicem per essentias suas nominales?*

Aff. Locke's Essay, B. iii. c. 3. § 2.

Neg. Lee against Locke, Dr. Green's Philos. B. v. c. 8.

15. *Utr. Essentiæ rerum sint nobis ignotæ?*

Aff. Locke's Essay, B. iii. c. 3. § 15. c. 6. per tot. Clerici Log. P. i. c. 7.

Neg. Dr. Green's Philos. B. v. c. 8.

16. *Utr. Essentiæ rerum sitæ sint indivisibili?*

Aff. Veteres scholastici.

Neg. Locke's Essay, B. iii. c. 6. Clerici Logica, P. i. c. 8.

17. *Utr. Optima sit definiendi methodus per genus & differentiam?*

Aff. Burgersdic. Log. L. ii. c. 2. Eustach. p. 89. Wallisi Log. L. i. c. 4. Smiglec. Disp. 18. Qu. 2.

Neg. Locke's Essay, B. iii. c. 3. § 10. Clerici Log. Præf. § 4.

18. *Utr. Proprium a subjecto possit separari?*

T

Aff.

Aff. Smiglee. Log. Disp. 5. Qu. 9. p. 204. Eustach. Log. p. 40.

Neg. Aldrich's Logicæ Compend. p. 110. Gassendus in Dialect. Aristot. Exerc. 2. Art. 2. Oper. Tom. III. p. 158. Locke's Essay, B. ii. c. 13.

19. *Utr. Substantia a proprietatibus sit reverà distincta?*

Quidam volunt substantiam esse proprietatum congeriem, ipsam vero non aliud esse quàm merè abstractam ideam. Mr. Law's Translat. of Archbp. King de Origine Mali, Not. 1. Watts's Logic, P. i. c. 2. S. 2. p. 13. Note. His Philosoph. Essays, Eff. iii. p. 47. Dr. Green's Phil. B. v. c. 8.

Alii proprietates non esse reales sed entia rationis existimant. Aristot. Met. L. vii. c. 10. Le Grand Instit. Philos. P. iv. c. 8. Philos. Burgund. Tom. I. p. 496. Elem. Logicæ, P. i. c. 2. S. 3, 4.

Lockius de hac re ambigere & in tenebris versari videtur. Essay on Hum. Und. B. ii. c. 13.

20. *Utr. Accidens adesse & abesse possit sine subjecti interitu?*

Aff. Aldrich's Compend Log. p. 111. Smiglecii Log. Disp. 5. Qu. 10. p. 208. Philos. Burgund. Tom. I. p. 111. 21.

21. *Utr.* Accidens migrare possit de sub-
jecto in subjectum?

Neg. *Aldrich's Compend. Log.* p. 112.
Smiglecii Log. Disp. 5. *Qui.* 10.

22. *Utr.* Divisio entium in decem sum-
ma genera vel *Categorias* sit justa & maxi-
me propria?

Aff. *Aristoteles* & innumeri alii, qui in
ejus verba jurant. *Aristot. de Categor.*
Smiglecii Log. Disp. 7. *Qui.* 1. *Eustachii*
Logic. p. 45. *Philos. Burgund. Tom.* I.
p. 117. *Wallis. Log. P. i.* c. 6. *Fell's*
Grammatica Rationis, p. 27. *Burgersdici*
Log. L. i. c. 3.

Neg. *Gassendus in Aristot. Dialect. Ex-*
erc. 3. *Art. i.* *Le Grand. Instit. Philos.*
P. i. c. 8.

Varia est entium distributio apud varios
auctores. Sunt, qui unam duxtaxat Cate-
goriam, nempe ens ipsum; sunt, qui du-
plicem statuant, substantiam nempe & acci-
dens. Sed *Lockiana* Prædicamentorum di-
visio in Modos, Substantias & Relationes
hodie receptissima est. *Locke's Essay*,
B. ii. c. 12. § 3. *Clerici Logica*, *P. i.* c.
5. *Ars Cogitandi*, *L. i.* c. 2, 3. *Watts's*
Logic, *P. i.* c. 2. S. 5. *Elementa Logicæ*,

P. i. c. 2. S. 2. *Croufaz*. Syst. Log. P. i.
S. 2. c. i. *Buddei* Philos. Instrum. P. i. c.
i. § 10.

23. *Utr.* Substantia prior attributo esse
possit?

Aff. *Clarke's* Answ. to a seventh Letter,
p. 46. *Jackson* on the Existence and Unity
of God, p. 19.

Neg. *Aldrich* Compend. Log. p. 115.
Smiglecii Log. Disp. 8. Qu. 8. Mr. *Law's*
Enquiry into the Ideas, &c. p. 145. Dis-
sertation on the Argument *a priori*, c. ii,
p. 58, 83.

24. *Utr.* Ratio substantiæ Deo & Crea-
turis conveniat univoce?

Aff. *Smiglecii*, Disp. 8. Qu. 2.

Neg. *Locke's* Essay, B. ii. c. 13. § 18.

25. *Utr.* Alicujus substantiæ habeamus
ideam adæquatam?

Neg. *Locke's* Essay, B. ii. c. 31. § 6, 10.
Clerici Logica, P. i. c. 10. Elem. Log.
P. i. c. 3. § 3.

26. *Utr.* Idea substantiæ incorporeæ sit
æque clara ac corporeæ,

Aff.

Aff. Cartesius de Methodo, p. 27. *Ejusdem* Meditat. ii. & Philos. Princ. P. i. p. 14. *Robaulti* Phys. P. i. c. 2. § 3. *Locke's* Essay, B. ii. c. 23. *Malebranche's* Search after Truth, B. iii. P. ii. ch. 7. *Elementa* Logicæ, P. i. c. 2. S. 4.

Neg. Bishop Brown's Proced. and Lim. of the Underst. B. i. c. 3. *Norris's* Ideal World, V. II. p. 252. *Dr. Felton's* Sermons at Lady Moyer's Lecture, Sermon. i. p. 12.

27. *Utr. Quantitas realiter differat a re quantâ?*

Neg. Wallisii Log. p. 304.

28. *Utr. Numerus sit vere & proprie quantitas?*

Rem ex utraque parte copiose disputatam vid. apud Smiglecium, Disp. 9. Qu. 5. Philos. Burgund. Tom. I. p. 132.

29. *Utr. Quatuor qualitatis species recte assignentur ab ARISTOTELE?*

Aff. Smiglecii Log. Disp. 11. Qu. 2, 3.

30. *Relationes sint entia realia?*

Aff. Scholastici quidam, quos vix operæ pretium est recensere.

Neg.

Neg. Aristot. Phys. L. v. c. 10. Smiglec. Disp. 10. Qu. 1. Philos. Burgund. Tom. I. p. 144. Locke's Essay, B. ii. c. 25. Elem. Log. P. i. c. 2. S. 5.

31. *Utr. In omni re possit fundari relatio?*

Aff. Smiglec. Disp. 10. Qu. 6. Locke's Essay, B. ii. c. 25. § 7. Crousaz Log. P. i. S. 2. c. 3. Elem. Log. P. i. c. 2. S. 5. Clerici Log. P. i. c. 4. Buddei Philos. Theoret. Tom. I. P. i. c. 1.

32. *Utr. Relatio sit tantum denominatio extrinseca?*

Aff. Gassendus in Aristot. Dialect. Exerc. 3. Art. 12.

33. *Utr. Dentur aliquæ relationes rebus essentielles?*

Aff. Suarez in Metaph. Disp. de Relatione. Cajetan. de Ente & Essentia, c. 7. Qu. 15.

Neg. Aristot. Metaph. L. iv. c. 2. Averroes Phys. L. i. c. 70. Smiglec. Disp. 10. Qu. 8. Locke's Essay, B. ii. c. 25. § 7--10.

34. *Utr.*

34. *Utr.* Relatio essentiam sumat a termino?

Aff. *Smiglec.* Disp. 10. Qu. 10. *Locke's* Essay, B. ii. c. 25. § 6.

35. *Utr.* Judicium sit actus voluntatis?

Aff. *Norris* of Reason and Faith, c. 1. Ideal World, P. ii. c. 3. S. 3. *Malebranche's* Search after Truth, B. i. c. 2. *Fiddes's* Theolog. Specul. B. iv. c. 1. *Jac.* Ode Theol. Natur. p. 58. *Le Grand* Instit. Phil. P. i. c. 11. *Watts's* Logic, P. ii. c. 1.

Neg. *Law's* Notes to King on the Orig. of Evil, n. 42. *Collins's* Enquiry about Liberty. *Clarke's* Letters concerning Liberty, subjoin'd to Papers betwixt *Leibnitz* and *Clarke*. *Jackson's* Defence of Hum. Liberty, in Answer to *Cato's* Letters, p. 99.

36. *Utr.* Contradictoria possint esse simul vera?

Quætionem fuse tractavit *Smiglecus*. Disp. 12. Qu. 10.

37. *Utr.*

37. *Utr.* Ideæ claræ & distinctæ sint criterion veritatis?

Aff. *Locke's Essay*, B. iv. c. 1. B. iv. c. 4. § 18. Second Letter to Bishop *Stillingfleet*, p. 83. *Elementa Log.* P. ii. c. 3. *Watts's Log.* P. ii. c. 2. S. 7. *Clerici Log.* P. ii. c. 7. *Le Grand Instit. Philos.* P. i. c. 2. *Buddei Philos. Instrum.* P. i. c. 3. § 27.

Neg. *Veteres Pyrrhonici* omnia veritatis criteria tollebant. *V. Sext. Empiricum.* Nec desunt inter recentiores *Pyrrhonistæ*. Vid. *Huetii* opus *Posth. de Hum. Intell.* Scepticos præclare refellit *Croufaz* in *Histoire du Pyrrhonisme*.

38. *Utr.* Voces primò & immediate significant ideas?

Aff. *Locke's Essay*, B. iii. c. 2. § 2, 3. *Philos. Burgund.* Tom. I. p. 166. *Elementa Logicæ*, P. i. c. 4. S. 1. *Buddei Phil. Instrum.* P. ii. c. 1. § 7.

Neg. *Smiglecii Log. Disp.* 12. Qu. 1.

39. *Utr.* Sensibus fit fidendum?

Aff. *Aldrich's Compend. Log.* p. 123. *Elementa Log.* P. ii.

Neg.

Neg. Aldrich, Ibid. p. 126. *Cartes.*
Philos. Princ. P. i. § 4. *Le Grand Instit.*
Philos. P. i. c. 2. *Malebranche's Search*
after Truth, B. i.

40. *Utr.* Simplex apprehensio veritatis
& falsitatis sit capax?

Quæstionem ex utraque parte disputa-
tam vid. apud Philos. Burgund. Tom. I.
p. 177.

41. *Utr.* Propositiones de futuro con-
tingenti sint determinatè veræ aut falsæ.

Aff. Smiglecius, Disp. 12. Qu. 10. Phi-
los. Burgund. Tom. I. p. 180. Le Grand
Instit. Philos. P. i. c. 13.

42. *Utr.* Omnis propositio sit vel vera
vel falsa?

Aff. Philos. Burgund. Tom. I. p. 187.

43. *Utr.* *Cartesius* Philosophiam à du-
bitatione recte ordiatur?

Aff. Cartes. de Methodo, p. 11. Princ.
Phil. P. i. § 1. Medit. i. Le Grand Instit.
Phil. P. i. c. 2. Claubergii Dubit. Cartesiana.

44. *Utr.* Definitio nominis a definitione
rei distingui debeat?

U

Aff.

Aff. *Le Grand* Philos. Instit. P. i. c. 10, 13. *Locke's* Essay, B. iii. c. 10. § 16. *Clerici* Log. P. ii. c. 12. *Ars Cogitandi*, P. ii. c. 12. *Watts's* Log. P. i. c. 6. § 2. *Burgersdic.* Synopf. Log. p. 185.

45. *Utr.* Propositio singularis habeat vim universalis?

Aff. Quæstionem fusc & ex professo discutit *Wallisius*, Log. p. 261.

46. *Utr.* Omnis discursus sit ex præcognitis & præconceffis.

Aff. *Smiglecius*, Disp. 13. Qu. 3. *Philos. Burgund.* Tom. I. p. 196.

Hoc scholasticorum axioma improbat *Lockius*. Essay on H. Und. B. iv. c. 7. § 8.

47. *Utr.* Certiora sint, quæ discursu cognoscuntur, quam quæ sensu percipiuntur?

Aff. *Ars Cogitandi*, P. iv. c. 1. *Wolaston's* Relig. of Nat. S. 3. § 13. *Locke's* Essay, B. iv. c. 2, 11. *Le Grand*, *Malebranche*, aliique *Cartesiani*. Vid. supra, Qu. 39.

48. *Utr.* Principium istud, quæ conveniunt uni tertio conveniunt inter se, sit proprie fundamentum syllogismi?

Aff.

Aff. Smiglecius, Disput. 13. Qu. 15.
Watts's Log. P. iii. c. 1.

49. *Utr.* Syllogismus sit utilissimum rationis instrumentum?

Aff. Tota Peripateticorum turba.

Neg. Locke's Essay, B. iv. c. 17. § 4.
Clerici Log. P. iv. c. 2.

50. *Utr.* Ex falso inferri possit verum?

Aff. Sanderſon's Log. Compend. L. i. p. 129.

Neg. Smiglec. Disp. 13. Qu. 9. *Philos. Burgund.* Tom. I. p. 199.

51. *Utr.* Quarta ſyllogiſmorum figura admitti debeat?

Aff. *Clerici Log.* P. iv. c. 4.

Neg. *Aristoteles*, & qui eum ſectantur.
Walliſii Log. L. iii. c. 9. *Philos. Burgund.* Tom. I. p. 195.

52. *Utr.* Omnes ſyllogiſmi compoſiti ad categoricos reduci poſſint?

Aff. *Walliſii Log.* p. 280.

53. *Utr.* *Aristotelica* diſputandi methodus ſit methodo *Socraticæ* præferenda?

Neg. *Clerici Log.* P. iv. c. 9.

54. *Utr. Demonstratio a priori sit sola proprie & vere demonstratio?*

Aff. Smiglecius, Disp. 15. Qu. 1.

55. *Utr. Methodus Analytica sit in disciplinis philosophicis Syntheticæ præferenda?*

Vid. supra, Cap. 1. Qu. 1.

CA.

CAPUT X.

QUÆSTIONES METAPHYSICÆ.

I. De IDEIS.

1. **U**TRUM dentur innatæ Ideæ?
Aff. Plato in Phæd. Cic. Tusc.

Disp. L. i. c. 24. Le Grand Instit. Philos. P. ix. c. 4. Herbert de Veritate, p. 76, &c. Ed. 1656. King de Orig. Mali, c. 4. Not. a. Sharrock de fin. p. 168. Sberlock on a future State, p. 124. Sanderfon de Conscientia, Præl. i. p. 16. Cudworth's Intell. System, c. 4. § 11.

Neg. Aristot. Met. L. i. c. 1. Locke's Essay on Hum. Und. B. i. per tot. Pearson on the Creed, p. 20. Croufaz Syst. Log. P. i. S. 2. c. 1. Elementa Logicæ, P. i. c. 1. S. 2. Moshemii Not. ad Cudworthi Syst. Intell. p. 223, 758, 836.

2. *Utr. Ideæ ad sensus externos & phantasmiam omnino pertineant?*

Aff. Norris's Ideal World, P. ii. c. 8. p. 370. Proced. and Limits of Hum. Und. B. i.

B. i. c. 2. *Stillingsfleet's* Answers to Mr. *Locke's* first Letter, p. 93.

Neg. Latiorē esse vocis *Ideæ* sensum voluit *Lockius*. Essay, Introd. § 8. Elem. Log. P. i. c. i. S. i.

3. *Utr.* Mens *Ideas* solas percipiat?

Aff. *Locke's* Essay, B. ii. c. 9. *Norris's* Ideal World, P. ii. c. 3. §. i. Elem. Logicæ, P. i. c. i. S. i. *Le Grand* Instit. Philos. P. i. c. i. p. 2.

4. *Utr.* Omnes *Ideæ* originem ducant à sensatione & reflectione?

Aff. *Locke's* Essay, B. ii. c. i.

Neg. *Lee* against *Locke*, B. ii. c. i. *Green's* Princ. of Philos. B. v. c. 2. & B. vi. c. 7. *Proced. and Lim. of Hum. Und.* B. iii. c. 7. *Jac. Ode* Theolog. Nat. p. 39. *Cudworth's* Intellectual System, c. 5. p. 754. 1145. Edit. *Mosheim*.

Sunt, qui negant abstractas *Ideas* vel à sensatione vel à reflectione oriri posse. *Watts's* Log. P. i. c. 3. S. i. *Philosoph. Essays*, iii. p. 93.

Sunt etiam, qui tertium *Idearum* genus, (quas *Imaginationi* tribuunt) ab *Ideis* sensationis & reflectionis distinguere volunt. *Crousaz* Syst. Log. P. i. c. 5. *Elementa Logicæ*, P. i. c. 2.

5. *Utr.*

5. *Utr.* Idea soliditatis oriatur a tactu solo?

Aff. Locke's Essay, B. ii. c. 4. Gravesande Elem. Phys. L. i. c. 3. Elem. Logicæ, P. i. c. i. S. 3.

Neg. Lee against Locke, B. ii. c. 4. Green's Princ. of Phil. B. v. c. 3. p. 612.

6. *Utr.* Idea durationis oriatur ex reflectione in successionem Idearum in mente?

Aff. Locke's Essay, B. ii. c. 14. Hook's Posth. Works, p. 139.

Neg. Lee against Locke, p. 76. Green's Princ. of Philos. B. v. c. 6. p. 645.

7. *Utr.* Motus in organis corporeis Ideas necessario excitet?

Neg. Locke's Essay, B. ii. c. 5. & c. 9. § 3. Elem. Log. P. i. c. i. S. 3.

8. *Utr.* Ideæ sensationis mutari possint à judicio?

Aff. Locke's Essay, B. ii. c. 9. § 8-10. Elem. Logicæ, P. i. c. i. S. 3.

Neg. Green's Princ. of Philos. B. v. c. 4. p. 625.

9. *Utr.* Perceptio sit activa mentis facultas?

Aff.

Aff. Locke's Essay, B. ii. c. 9. § 2. Norris's Ideal World, P. ii. c. 3. S. 1-3. Elem. Logicæ, P. i. c. 1. S. 4.

10. *Utr.* Omnis cognitio humana ex simplicibus Ideis componatur, & sit in eas resolvable?

Aff. Locke's Essay, B. ii. c. 7. § 10. Elem. Logicæ, P. i. c. 3. S. 1.

11. *Utr.* Mens sibi formare possit Ideas simplices, vel eas destruere?

Neg. Locke's Essay, B. ii. c. 2. § 2. & c. 12. § 1. El. Log. P. i. c. 3. S. 1. Malebranche's Search, &c. P. ii. c. 3.

12. *Utr.* Ideæ simplices possint definiri?

Neg. Locke's Essay, B. iii. c. 3. § 4, 10. Elem. Log. P. i. c. 3. S. 1.

13. *Utr.* Dentur Ideæ positivæ ex causis privativis oriundæ?

Aff. Locke's Essay, B. ii. c. 8. § 1, 6. King's Origin of Evil, 2d Ed. n. 3.

Neg. Lee against Locke, B. ii. c. 8. Green's Princ. of Phil. B. v. c. 3. p. 617.

14. *Utr.* Idea infiniti oriatur ex sensatione & reflectione?

Aff.

Aff. Locke's Essay, B. ii. c. 17.

Neg. Lee against Locke, B. ii. c. 17.
Green's Philos. B. v. c. 7. p. 657.

15. *Utr.* Quiddam detur in secundariis corporum qualitatibus earum Ideis simile aut conforme?

Aff. Nonnulli Aristotelis interpretes, qui formas substantiales tuentur. Vid. Cap. I. Qu. 16.

Neg. Aristot. de An. L. ii. c. 6. & L. iii. c. 3. Locke's Essay, B. ii. c. 3. & c. 8. § 13. Watts's Philos. Essays, p. 81. Elem. Logicæ, P. i. c. 1. §. 3. Cartes. Princ. P. iv. § 194.

16. *Utr.* Dentur Ideæ, quæ oriuntur & à sensatione & à reflectione?

Aff. Locke's Essay, L. ii. c. 20. § 1. & c. 7. § 6.

Neg. Green's Princ. of Phil. B. v. c. 7.

17. *Utr.* Ideæ PLATONIS & Numeri PYTHAGORÆ unum idemque sonent?

Aff. Cudworth. Intell. Syst. c. 4. p. 466. Edit. Mosb. Brucker. in Amœnit. Literar. Tom. VII. p. 173.

Neg. Mosheim. Not. in Cudworth. l. c.

18. *Utr.* Ideæ PLATONIS sint naturæ ex divina intelligentia procreatæ?

Aff. Plerique Platonis interpretes, in quibus familiam ducit *Aristoteles*.

Neg. Vult *Cudworthus* Ideas Platonis esse solum notiones in animo divino. Vid. *Intell. Syst.* p. 66 r. cum *Moshemii* Not. in loc.

Utriusque sententiæ defensores longo ordine recenset *Jac. Bruckerus* in *Hist. Doctrinæ de Ideis*, S. I. § 5. p. 53.

II. De ANIMA.

19. *Utr.* Anima semper cogitet?

Aff. Omnes *Cartesiani*. *Le Grand Institut.* P. ix. c. i. *Watts's Philos. Essays*, p. 114-124. *Green's Princ. of Philos.* B. v. c. 2. p. 608. Remarks on Mr. *Locke's* Essay. *Lee* against *Locke*, p. 44. Enquiry into the Nat. of the Soul, S. 4. p. 143. *Wollaston's Relig. of Nat.* p. 199.

Neg. *Locke's* Essay, B. ii. c. i. § 10. Defence of it, in Answer to Remarks, p. 26. *Clerici Pneumatolog.* c. 2. Solid Philosophy asserted, p. 125.

20. *Utr.*

20. *Utr.* Immaterialitas animæ demonstrari possit?

Aff. *Clarke's* Letters to *Dodwell* and *Collins*, per tot. His Discourse on the Being and Attrib. of God, Prop. x. p. 88. *Le Grand* Institut. Philos. P. ix. c. 2. *Eustachii* Summa Philos. p. 328. *Cartesii* Meditat. *Jac.* Ode Theolog. Nat. p. 111. *Broughton's* Psychologia, c. 5. *Wollaston's* Relig. of Nature, p. 186. *Dr. H. More* on the Immortality of the Soul. *Norris's* Ideal World, P. ii. c. 1. *Burnet* de Statu Mortuorum, c. 3. *Law's* Translation of *King* de Orig. Mali, note 7. His Enquiry into the Ideas of Space, Time, &c. p. 105. *Ditton* on the Resurrection, Append. p. 357. *Raphsoni* Epistolæ de Animæ Naturâ. *Cudworth's* Intellect. System, p. 827. *Mosheim's* Edit. p. 1022. Cum innumeris aliis. Sed qui quæstionem hancce eruditè & ingeniosè tractatam videre voluit, consulat omninò librum anonymum, omnibus aliis longe præferendum; cui titulus, *Enquiry into the Nature of the human Soul*.

Neg. *Lucret.* L. i. ver. 864. *Hobbes's* Leviathan, c. 46. *Dodwell* on the Soul. *Locke's* Essay, B. iv. c. 3. § 6. His first Letter to *Stillingsfleet*, p. 64. Third Letter,

ter, p. 396. *Collins's* three Letters to Dr. *Clarke*. Dr. *Coward's* Grand Essay. *Jackson's* Dissertat. on Matter and Spirit. *Willis de An. Brutorum*, c. 6. *Blount's* Letter to Lord *Rocheſter* in the Oracl. of Reason, p. 117.

21. *Utr.* Materia poſſit cogitare?

Vid. Auctores ad Quæſtionem ultimò memoratam citatos: qui illuc affirmant, huc negant, & vice verſâ.

22. *Utr.* Anima ſit ſuâ naturâ immortalis?

Aff. Enquiry into the Nat. of the Soul, S. 3. *Sherlock* on a future State. *Smith's* Select Diſc. p. 56. *Le Grand Philoſ. Inſt.* P. ix. c. 15. Cæterique, qui quæſtionis 2omæ partem affirmativam tuentur,

Neg. *Hallet's* Treatiſe on the Immort. of the Soul. Et quotquot materiæ capacita-tem cogitandi attribuunt,

Plurimos auctores tum veteres tum recentiores de hac re citavit *Fabricius de Veritate Rel. Chriſtianæ*, c. 18, p. 421.

23. *Utr.* Anima ſit extenſa?

Aff. Omnes, qui animam eſſe immaterialem negant, Vid. ſupra, Qu. 20. Sunt etiam

etiam qui affirmant & (quod miro simile videtur) ejus immaterialitatem nihilominus tuentur. *S. Collier's Impartial Enquiry*, p. 222. *Dr. S. Clarke's Letters to Collins*, p. 118.

Neg. Plotini argumenta, quibus animam extensione carere probat, erudite defendit *Cudworthus*. *Intellect. Syft.* p. 823. *Ed. Mosheim.* p. 1111. *Le Grand Instit. Philos.* P. ix, c. 3. *Law's Notes to King de Orig. Mali*, n. 7. *Enquiry into the Ideas of Space, &c.* *Watts's Philos. Essays*, vi. S. 2. p. 146.

24. *Utr.* Cogitationum nostrarum sub-
jecto insint facultates vegetativa, nutritiva,
& locomotiva?

Aff. Veteres Scholastici.

Neg. Clerici Pneumatol. S. i. c. 7.

25. *Utr.* Somniorum ratio ex materia &
motu explicari possit?

Aff. Le Grand Inst. Phil. P. viii. c. 20.

Neg. Enquiry into the Hum. Soul, S. 6.
p. 196. *

* Quæstionem unam & alteram *de anima* inveniet Lec-
tor in capite secundo, quæ magis aptè in hac parte locum
obtinere potuerint. Itaque ne has frustra quærat, adeat
Cap. 2. Qu. 10, 11,

III. De Deo.

26. *Utr.* Idea Dei sit innata?

Vid. supra, Qu. I.

27. *Utr.* Idea Dei probet ejus existentiam?

Aff. *Cartes.* Princ. Phil. P. i. § 14. Eiusdem Meditat. 3, 5. *Claubergii* Comment. in *Cartesii* Medit. in Oper. p. 390. *Le Grand* Inst. Phil. P. ii. c. 2. *More's* Antidote against Atheism, L. i. c. 8. *Cudworth's* Intellect. Syst. p. 721. Edit. *Mossheim.* p. 896. *Andalæ* Syntag. Theol. vel Act. Erud. 1711. p. 22. *Claubergii* Exercit. de Deo in Act. Erud. 1691. p. 374. *Porretti* Cogitationes de Deo, p. 19. *Fiddes's* Theol. Spec. B. i. P. i. c. 9. *S. Collier's* Impartial Enquiry, B. ii. P. i. *Jac. Ode* Theol. Nat. p. 26--31. *Stillingfleet's* Orig. Sacrae, B. iii. c. 1. § 5, 6.

Neg. *J. Franc. Buddei* de Piet. Philos. in Select. Jur. Nat. & Gent. p. 206. *Norris's* Treatises, p. 9. Ideal World, V. II. p. 291. *Locke's* Essay, B. iv. c. 10. § 7. *Huetii* Censura Phil. *Cartes.* c. 4. § 8. *Parker* de Deo & Provid. Disp. vi. S. 24. Dr. *S. Clarke's* Disc. on the Being and Attr.

p. 22.

p. 22. *Larv's* Notes to *King's* Orig. of Evil,
p. 54, 55, 56. 2d Edit. *Mosheim's* Not. ad
Cudworth's Syst. Intellect. V. II. p. 888—
899.

28. *Utr. Existentia Dei probari possit*
ab æternis veritatibus?

Aff. Norris's Miscell. p. 142. *Ideal*
World, P. ii. p. 529. *Cudworth's* Intel-
lect. Syst. p. 906. Ed. *Mosheim*.

29. *Utr. Existentia Dei admittat de-*
monstrationem à priori?

Aff. Dr. S. Clarke's Demonstr. of the
Being and Attr. Prop. 3. His seven Let-
ters in Defence of his Demonstration.
Three Defences of *Dr. Clarke*, by *Mr.*
Clarke of C.C.C. *Jackson* on the Ex-
istence and Unity.

Neg. Veteres uno ore argumentum à
priori rejiciunt. *Aphrodis.* Phys. Schol. L. i.
c. 1. *Clem. Alexandr.* p. 696. *Albertus*
Magnus in Lib. i. Sentent. Disp. 3. Opp.
Tom. XIV. p. 66. *Aquin. Summ. Qu.*
2. Art 2. p. 14. *Reg. Bacon.* Opus Majus,
p. 62. *Rich. de Media Villa* in iv L. sent.
L. i. Dist. 3. Qu. 3. p. 41. *Duns Scot.*
in Libr. sent. L. i. Dist. 2. Qu. 2. p. 28.
Greg. de Valent. Tom. I. Disp. 1. Qu. 2.
P. 59.

p. 59. *Vásq.* Qu. 2. Art. 2. p. 60. *Sua-*
rez. Metaph. Tom. II. Disp. 29. S. 3. p. 28.
Gillii Comment. Theol. L. i. Traët. 8. c.
 4. p. 391. *Estius* in L. Sent. Comment.
 Tom. I. p. 4. *J. Putean.* Op. Tom I.
 P. i. Qu. 3. p. 24. *Rod. de Arriaga,*
 Tom. I. p. 30.

Eandem tuentur partem plerique recen-
 tiores. *Petav.* Dogm. Theol. Tom. I. L. i.
 c. 1. p. 2. *Culverwell,* p. 212. *Barlow.*
 Exerc. Metaph. 4. p. 28, 129. *Fr. Bonæ*
Spei, Disp. 1. Dub. 2. *Cudworth's* Intell.
 Syst. B. i. c. 4. p. 715. *Le Blanc.* Thes.
 p. 91. *Tillotson's* Serm. V. II. p. 671. *Fol.*
Ditton on the Resurr. p. 135. *Gretton's*
 Review of the Argum. à priori. *Law's*
 Notes to *King* de Orig. Mali, n. 10. &
 Rem. e. His Enquiry into the Ideas of
 Space, &c. c. 5. Et (qui instar omnium
 est) Dissertation on the Argument à priori.

30. *Utr.* Existentiâ Dei demonstrari
 possit à posteriori ?

Unâ & mente & voce de hâc primâ veri-
 tate consentiunt omnes; unde & novum ori-
 tur argumentum ab universo consensu peti-
 tum. “ Cum enim (ut monet *Cic.* de Nat.
 “ Deor. L. i. c. 17.) non instituto aliquo aut
 “ more aut lege sit opinio constituta, ma-
 “ neatque

“neatque ad unum omnium firma consensio, intelligi necesse est esse DEUM.”

Dies deficeret, si vel millesimam scriptorum partem, qui laudabilem in hac palæstrâ operam navarunt, adducerem. Paucos è recentioribus & laudatissimis memorare fatis duco.

I. Argumentis metaphysicis probârunt Scholastici. Item, *Barlow's Exercitat. Metaph.* *Wilkins's Nat. Religion.* *Seth Ward's Philosophical Essay.* *Fiddes's Body of Divinity.* *Episcopii Inst. Theol. L. iv. S. 2.* *Hale's Primitive Origination of Mankind.* *Cudworth's Intellectual System.* *King de Origine Mali, with Mr. Law's Notes.* *Clarke's Disc. of the Being and Attributes.* *Collier's Impartial Enquiry.* *Enquiry into the Evidence of the Christian Religion, 2d Edit.* *Wollaston's Religion of Nature delineated.*

II. Ab ordine & structurâ mundi. Dr. *Bentley's Sermons at Boyle's Lecture.* *Derham's Physico-Theology, and Astro-Theology.* *Ray on the Creation.* *Cheyne's Philos. Princ. of Religion.* *Nieuwentyt's Religious Philosopher, 3 Vol.* *Stillingfleet's Orig. Sacræ.* *Parker Disp. de Deo.* *Grew's Cosmologia Sacra, B. i. c. 5.* *Cockburn's Essays, P. i. Eff. 7.* *W. Scott on the Wisdom*

dom of God, Serm. i. *Edwards's Vindic.*
of God's Attributes.

31. *Utr.* *Attributa Dei* (v. g. *Æternitas*, *Immensitas*, *Omniscientia*, *Omnipotentia*, *Immutabilitas*, *Simplicitas*, *Unitas*, *infinita Justitia*, *Sapientia* & *Bonitas*) demonstrari possint?

Conf. *Auctores supra citatos.*

32. *Utr.* *Unitatem* & *necessariam existentiam Dei* demonstraverit CLARKIUS?

Aff. *Clarke's Disc.* on the Being and Attrib. Prop. 3, 7. His Letters in Defence of it. *Jackson* on the Existence and Unity of God.

Neg. *Dr. Gretton's Review* of the Argument *à priori.* *Mr. Law's Notes* to *King de Orig. Mali*, note 10. R. i. His Enquiry into the Ideas of Space, &c. c. 5, 6. *Dissertat.* c. 2.

33. *Utr.* *Moralia Dei attributa* demonstrari possint *à priori*?

Aff. *Clarke's Demonstr.* &c. Prop. 12. *Balguy's Divine Rectitude.* Appendix at the End of his Vol. of Tracts. *Wisdom the Spring of Action in the Deity.*

Neg.

Neg. Divine Benevolence. *Law's* Notes on *King* de Orig. Mali, n. 10.

34. *Utr.* Moralia Dei attributa demonstrari possint à *posteriori*?

Aff. Divine Benevolence. *Law's* Notes to *King*, n. 10. & *R. i.* Essay on Moral Obligation, c. 3. *Clerici* Pneumatol. S. 3. c. 11. *Wilkins's* Nat. Relig. B. i. c. 10. p. 135. *Vid.* Qu. 30.

Neg. Divine Rectitude. Wisdom the Spring of Action in the Deity.

35. *Utr.* Moralia Dei attributa interpretari oporteat in sensu analogico?

Aff. *Aquin.* Summ. P. i. Qu. 13. Art. 3. & Qu. 14. Art. 1. *Suarez* Disp. Met. Tom. II. Disp. 3. S. 15. *Gassend.* in Dial. *Aristot.* Exerc. 3. Art. 9. *Dr. Felton's* Sermons at *Moyer's* Lectures, p. 212. *Bishop Brown's* Answer to *Toland* on Mysteries. *Proced.* and *Lim.* of Human Und. Divine Analogy. *King's* Sermon on Predestination. *W. Law's* Case of Reason, p. 68.

Neg. *Edm. Law's* Notes on *King* de Or. Mali, 10. *R. k.* *Tillotson's* Works, V. III. Sermon. lxxvi. p. 569. The Minute Philosopher, V. I. p. 247. *Jackson's* Answ. to Divine Analogy. *Fiddes's* Theol. Speculat.

p. 125. & Practical Discourses, fol. 234.
J. Clarke on Moral Evil, p. 95. *Chubb's*
 Tracts, p. 146. *Edwards's* Vindication of
 the Divine Attributes.

IV. MISCELLANÆ METAPHYSICÆ.

36. *Utr.* Causa propriè dicta necessariò
 fuerit & naturâ & tempore prior effectu?

Aff. Clerici Ontolog. c. 10. Elem. Log.
 P. i. c. 3. S. 6. Et quotquot fuerunt scrip-
 tores Dialectici.

Neg. Jackson on the Existence and
 Unity. Vid. infra, Qu. 38.

37. *Utr.* Essentiæ rerum sint ab æterno?

Aff. Platonici.

Neg. Philos. Burgund. Tom. I. p. 478.

38. *Utr.* Æterna creatio contradictionem
 implicet?

Aff. Burgersdic. Institut. Met. L. ii. c.
 10. n. 7. *Locke's* Essay, B. ii. c. 26. § 2.
Dr. Clarke's Notions of Space examined,
 p. 93. *Mr. Clarke's* farther Examina-
 tion, &c. ch. 4. p. 146. Enquiry into
 the Nature of the Hum. Soul, S. 8. p. 357.

Neg. Three Defences of *Dr. Clarke*, by
Mr. Clarke of CC. C. C. *Jackson* on the
 Existence and Unity of God,

39. *Utr.*

39. *Utr.* Aliquid esse possit in effectū,
quod non fuit in causa? Sive,

Utr. Aliquis dare possit, quod non
habet?

Axioma à Scholasticis habetur, sed in
sensu peculiari & cum grano salis intelligen-
dum. Vid. *Clerici* Ontolog. c. 10. Elem.
Log. p. 1. c. 3. S. 6.

40. *Utr.* Axioma, *ex nihilo nihil fit*,
admitti debeat?

De vero hujusce axiomatis sensu disserue-
runt *Cudworthus*. System. Intell. p. 950.
Ed. Mosh. Et ipse *Moshemius* in Dissertat.
ibid. p. 957. *Clericus* ibid. p. 952.

41. *Utr.* Infinita series contradictionem
implicet?

Aff. *Hale's* Primit. Orig. of Mankind,
S. 1. c. 4. *Seth Ward's* Philosoph. Essay.
Stillingfleet's Orig. Sacrae, B. iii. c. 1. § 7.
S. Colliber's Impartial Enquiry, p. 208.
Cudworth's Intellect. Syst. p. 644. Id. p.
773. cum Notis *Moshemii*. *Grew's* Cos-
mol. Sacra, B. i. c. 1. *Locke's* Essay, B.
ii. c. 17. *Jac. Ode* Theol. Nat. p. 220.
Bentley's Sermons at *Boyle's* Lect. Serm. iii.
Law's Notes on *King de Orig. Mali*, n. 10.

& Rem. b. Enquiry into the Ideas of Space, &c. *passim*. Mr. Clarke's farther Examination, c. 4.

Neg. Jackson on the Ex. and Unity. Mr. Clarke's Three Defences. Collins's Essay on Reason, p. 55.

42. *Utr.* Infinitas Metaphysica distinguenda sit à Mathematica?

Aff. Infinitas Mathematica est modus quantitatis, adeoque negativa est. *Arist.* Nat. Auscult. B. iii. c. 9, 11, 13. *Phys.* L. iii. c. 6. *Suarez*, Tom. II. Disp. 30. § 11. *Locke's* Essay, B. ii. c. 17. § 1, 17, 19. *Law's* Notes on King de Orig. Mali, n. 3. Enquiry into the Ideas of Space, c. 3. p. 103. *Elem. Log.* P. i. c. 3. S. 6. *Cudworth's* Intell. Syst. p. 647. *Eustach.* *Phys.* Tract. iii. Qu. 5. p. 152.

Infinitas Metaphysica idem sonat cum perfectione, & idea est positiva. *Mosheimii* Not. ad *Cudworthi* Syst. Intell. p. 174. *Colliber's* Impartial Enquiry, P. ii. c. 1, 3. *Brown's* *Proced. and Lim. of Hum. Und.* B. i. c. 3. p. 82. *Law's* Notes to King, p. 99. His Enquiry after Space, &c. c. 3. p. 103. *Sherlock's* Vindication of the Trinity, p. 77. *Chauvini* Lexic. Ration. ad VOC. INFINITUM.

Neg.

Neg. Sunt, qui nullam aliam infinitatem præter mathematicam sapere possunt. *Hobbes* Leviathan, c. 3. *Cartes.* Princ. P. i. § 26. *Epist.* P. i. Ep. 67. *Clarke's* Demonstr. of the Being, &c. p. 38, 39. *Jackson* on the Exist. and Unity. Three Defences of Dr. *Clarke.* *Raphson's* Demonstratio de Deo, p. 2. *Clerici* Ontol. c. 17.

43. *Utr.* Æternitas sit duratio successiva?

Aff. *Raphson* Demonstr. de Deo. *Gassendi* Phys. L. i. c. 3. *Op.* Tom. I. p. 17. *Tillotson's* Serm. Vol. VI. Serm. vi. & Vol. VII. Serm. xiii. 8vo. *Clarke* on the Being and Attrib. p. 39. *Clerici* Ontol. c. 5, 6. *Jackson* on the Existence and Unity, p. 32. Three Defences of Dr. *Clarke.*

Neg. *Episcop.* Instit. Theol. L. iv. c. 9. *Cudworth's* Intell. System, p. 644. *Collier's* Impart. Enquiry, p. 209. *Hale's* Prim. Orig. of Mank. S. i. c. 6. p. 123. *Seth Ward's* Philos. Essay, p. 23. *Grew's* Cosm. Sacr. B. i. c. i. par. 9. *Jac. Ode* Theol. Nat. p. 220. *Smith's* Select Disc. p. 125. Enquiry into the Nature of the Soul, note ult. *Gastrell's* Boyle's Lect. P. i. p. 66. *Stillingfleet's* Vindic. of the Trinity, p. 285. *Cudworth's* Intell. Syst. c. 5. p. 778.

p. 778. *Moshemii* Not. p. 780. *Law's* Notes on *King*, Rem. c. p. 66. 2d Edit. His Enquiry into the Ideas of Space, c. 3. Variorum de hac re dogmata collegit *Dion. Petav.* Dogm. Theol. Tom. I. L. iii.

44. *Utr.* Aliquod detur infinite extensum?

Aff. *Clarke's* Demonstr. Prop. 6. His Answer to a seventh Letter. *Raphson* de Deo. *Jackson* on the Exist. and Unity, p. 100. Three Defences of Dr. *Clarke.* *More's* Enchirid. Met. c. 27.

Mundum corporeum esse infinite extensum statuerunt ex veteribus *Democritus*, *Epicurus*, *Lucretius*, alique. *Laert.* L. ix. S. 31. *Plut.* de Plac. Philos. L. i. c. 3. *Gassend.* Phys. Epic. p. 165--200. *Lucret.* L. ii. ver. 1047. *Arist.* de Cœlo, L. i. t. 33.

Cartesius indefinitum dixit, Princ. ii. § 21. P. i. Epist. 67, 69. Eum ideo reprehensum vid. apud *Huet.* Censur. c. 5. § 5. *Philos. Burgund.* Tom. II. p. 761.

Neg. *Sherlock's* Vindic. of the Trin. p. 80. *Watt's* Philos. Essays, vi. p. 169. *Cudworth's* Intell. Syst. p. 776. Cum Notis *Moshemii*, p. 775, 782. *Colliber's* Impart. Inquir. P. ii. c. 1. *Jac.* Ode Philos. Nat. P. i. p. 48. *Gul. Muys* Elem. Phys. S. 2.

S. 2. p. 117. *Waterland's* first Defence of his Queries, p. 294. *Poirett. Cog. Rat.* L. iii. c. 24. *Gretton's* Review, c. 6, 7. *Law's* Notes on King, Rem. b. p. 82. 2d Edit. His Enquiry into the Ideas of Space, c. 3. *Schuler contra Cartes.* Qu. 25.

45. *Utr. Spatium fit quiddam reale?*

Aff. Philosophi in varias distrahuntur opiniones de natura spatii. Sunt, qui volunt esse *modum* & quasi *sensorium* Divini entis. *Newtoni* Princip. Math. Schol. Gen. ad finem. Ejusdem Opt. Qu. 20. p. 315. *Clarke's* Papers against *Leibnitz*, p. 1, 11, 41, 55, 77, 101, 123, 181, 299, & *passim*. Demonstrat. of the Being and Attr. Prop. 2. Letters in Defence of it. *Raphson* de Spatio reali, c. 5. *Jackson* on the Unity and Existence. Three Defences of Dr. S. *Clarke*. *Rudiger*. Phys. Div. L. i. c. 8. S. 4. p. 346. *H. Mori* Enchir. Metaph. c. 8. *Colli-ber's* Impart. Enquir. p. 215.

Alii volunt idem esse, quod corpus. *Cartes.* Princ. P. ii. § 4. *Le Grand* Princ. Philos. P. iv. c. 12. *Green's* Princ. of Philos. B. i. c. 4. § 8, 18. *Jackson's* Dissert. on Matter and Spirit.

Vid. supra, Cap. 1. Qu. 13.

Vult *Gassendus* spatium esse medium quoddam inter substantiam & accidentem. *Phys.* S. 2. L. ii. c. 2. *Op.* Tom. I. p. 182.

Lockius sibi ignotum esse profitetur ad quam rerum classem spatium referendum sit. *Essay on Hum. Und.* B. ii. c. 13.

§ 17.

Neg. Alii denique omnem realem existentiam ab eo adimunt, & inter Ideas abstractas referunt. *Law's Notes to King de Orig. Mali*, n. 3, 9. *Enquiry into the Ideas of Space*, c. 1. *Dr. Clarke's Notions of Space examin'd.* A farther Examination, &c. by *Mr. Clarke*, of *Magd. Coll.* *Watts's Philos. Essays*, il. *Vriesius de Extens. Infin.* § 42. *Jac. Ode Philos. Nat.* P. i. p. 22.

46. *Utr.* Tempus sit quiddam reale?

Aff. *Clarke's Papers* against *Leibnitz*, p. 305. *Jackson on the Exist. and Unity*, p. 95.

Neg. Ad ideatum abstractarum classem refert *Law's Notes on King*, p. 67. *Enquiry into the Ideas of Space and Time*, c. 2, 4. *Le Grand Instit. Phil.* P. iv. c. 24. *Philos. Burgund.* Tom. I. p. 519.

Tempus esse modum existentia^{rum} entium finitorum statuit *Lockius*. Essay, B. ii. c. 17. § 1.

47. *Utr.* Locus sit relativus ad corporum fitum?

Aff. *Smiglec.* Log. Disp. 9. Qu. 9. *Philos. Burgund.* Tom. I. p. 523. *Le Grand* Instit. Philos. P. iv. c. 12. *Locke's* Essay, B. ii. c. 13. § 7.

Neg. Qui realem existentiam spatio attribuant, vid. supra, Qu. 45.

48. *Utr.* Motus sit mere relativus?

Aff. *Le Grand* Instit. Phil. P. iv. c. 14. *Law* on Space and Time, p. 66, 69. *Leibnitz's* Reply to *Clarke*, p. 99, 205. *Smiglec.* Log. Disp. 9. Qu. 7. *Chauvini* Lex. Rat. ad voc. MOTUS LOCALIS.

Neg. *Clarke's* Papers against *Leibnitz*, p. 79, 133. *Jackson* on the Existence and Unity, p. 88. *Coward's* Grand Essay, p. 4.

49. *Utr.* Motus æternus esse possit?

Aff. *Aristot.* Phys. Auscult. L. viii. c. 7.

Neg. *Cudworthi* Intell. Syst. p. 1131.

Ed. Moss. Vid. supra, Cap. 2. Qu. 2. &

Cap. 10. Qu. 36.

50. *Utr.* Hominibus competat liberum arbitrium?

Aff. Omnes melioris notæ Philosophi; attamen de natura hujusce libertatis in diversas distrahuntur opiniones.

I. Sunt, qui libertatem agendi asserunt, sed eligendi aut respuendi negant. *Locke's Essay*, B. ii. c. 21. Epist. ad *Limborch.* p. 474. *Lockium* ad examen revocant *Law.* Notes on *King* de Orig. Mali, n. 45. p. 246. *Strut's* Rem. on *Locke's* Ch. of Power.

II. Alii libertatem homini attribuunt, quatenus omni vi vel necessitati physicæ opponitur. *Clarke's* Demonstr. of the Being and Attr. p. 109. Answ. to *Collins's* Philos. Enquir. p. 24. *Jackson's* Defence of Hum. Lib. p. 99.

III. Vult *Leibnitzius* homines ideo gaudere libertate, quoniam sine ratione sufficiente determinare non possunt. *Theodic.* § 45. Conf. Papers betwixt *Leibnitz* and *Clarke*, *passim*.

IV. Quidam libertatem ponunt in indifferentia quadam ad omnia objecta. *King* de Orig. Mali, c. v. S. 1. *Law's* Notes ibid. Essay on Consciousness, p. 209. *Kingii* hypothesin de ratione libertatis ad examen revocat *J. Chr. Wolsius*, in *Manichæism*

chæism. ante *Manichæos.* Eidem oppugnat *Bælius.* Reponse aux quæstions d'un Provincial. Tom. II. c. 19. *Leibnitzius* ad calcem libri, *Essais de Theodicee.*

V. Plerique in eo libertatem ponunt scilicet nos; quod bonum apparet, eligere posse; quod malum, respuere; & in quibusdam circumstantiis determinationem suspendere; adeo ut voluntas semper sequatur ultimum intellectûs iudicium. *Aristot.* Ethic. ad Nicom. L. i. c. 1, 4. Polit. L. i. c. 1. *Episcopii* Tract. de Libero Arbitrio. *Limborch* Theol. Christiana, L. ii. c. 23. § 30. Bp. *Bramhall* contra *Hobbes*, p. 678. *Malebranche's* Search, &c. L. i. c. 1. *Philos.* *Burgund.* Tom. II. p. 271. *Norris's* Ideal World, P. ii. c. 2. § 3. *Pufendorf* de Jure Nat. & Gent. L. i. c. 4. De Offic. Hom. & Civ. L. i. c. 1. § 9.

Neg. Nec desunt, qui omnes mortalium actiones fato & necessitatis legibus subijciunt; scilicet *Democritus*, & *Epicurus* inter veteres, de quibus vid. *Diog. Laert.* *Cic.* de Fin. L. i. vel *Stanleii* Vit. *Philos.* & inter recentiores, *Hobbesius* in *Leviath.* *passim.* Debate with Bishop *Bramhall*, p. 289. *Spinoza* Eth. P. ii. Prop. 13, 32, 48. *Collins* in *Philosoph. Enquiry concerning Liberty*; & *Dissertation on Liberty and Necessity.*

Omnes

Omnes de fato Hypotheses præclare refellit *Cudworth*. in Syst. Intellect.

Hobbesius refutatur à *Bramhall* Episc. *Derr*. Et tam *Hobbesius* quam *Spinoza* à *Clarkii*. Demonstr. of the Being, &c. p. 96. & *Collins* ab eodem ex professo, in Append. ad Letters betwixt *Clarke* and *Leibnitz*; necnon & à *Ph. Gretton's* Remarks on *A. C.*'s two Pamphlets on Liberty. *Jackson* Vindic. of Hum. Liberty in Answer to *A. C.*

51. Utr. Voluntarium in homine sit semper liberum?

Neg. *Eustach*. Eth. p. 39. *Waterland's* first Defence, p. 127. *Clarke's* Scripture Doct. p. 248.

52. Utr. Præscientia divina tollat libertatem agendi?

Aff. *Collins's* Essay on Reason, p. 45. *Cato's* Letters, Vol. IV. p. 178.

Neg. *Le Grand* Instit. Philos. P. x. c. 20. *Clarke* on the Attrib. p. 111. *Jackson's* Def. of Hum. Liberty, in Answer to *Cato's* Letters, ii. p. 54, 62. *Law's* Notes on *King* de Orig. Mali, n. 77. p. 442. *King's* Sermon on Predestination. *Wolaston's* Relig. of Nat. *Howe* on Prescience.

53. Utr.

53. *Utr. Origo mali solvi possit falvis Dei attributis?*

Aff. King de Orig. Mali. *Law's* Translation with Notes, 4to & 8vo. *Wolfii Manichæismus* ante *Manichæos*. Dr. *J. Clarke's* Enquiry into the Cause and Origin of Evil. *Gurdon's Boyle's* Lectures, Serm. v. *Bulfingeri* Comment. Theol. de Orig. Mali. *Mer. Casaubon* on the Cause of temporal Evils. Dr. *S. Clarke's* Demonstr. of the Being, &c. p. 116. *Buddeus* de Orig. Mali. *Stillington's* Orig. Sacrae, B. iii. c. 3.

Neg. Bayle Histor. & Crit. Diction. ad voc. MANICHEANS, MARCIONITES, ORIGEN, PAULICIANS, &c. *Response aux questions d'un Provincial*, Tom. II. c. 3, 4, 5.

Scripta ad controversias Bælianas spectantia recenset *Fabricius*, de Verit. Relig. Christianæ, c. 15. p. 383.

Historiam Manichæismi nuper fuscè tradidit *M. de Beausorbe*, in *Histoire Critique de Manichée & du Manichéisme*.

54. *Utr. Aternitas penarum contradicat divinis attributis?*

Aff.

Aff. Episcop. Respons. ad Quæst. p. 67. *Burnet* de Statu Mortuorum, c. 11. *Lux Orientalis*, p. 73. *S. Collier's* Imp. Enquiry, p. 105. His Essay on Reveal'd Relig. p. 142. *Phœnix*, Vol. I. p. 1. Vol. II. p. 427. A Revelation of the everlasting Gospel-Message, 1697. *T——l's* Christianity as old as the Creation, c. 4. Idem innuere videtur *Tillotson*, Vol. III. Sermon. iii.

Neg. *Lupton's* Sermon on Hell Torments. *Jenkins's* Reasonableness of Christianity, Vol. II. c. 14. *Sherlock* on Providence, c. 2. *Rymer's* Reveal'd Relig. c. 7. *Whitby's* Append. to 2d of the *Thessalon.* *Nicholls's* Conf. P. iii. p. 309. *Scott's* Christian Life, Vol. V. p. 91. Discourses, p. 435. *Bates* on the Exist. of God, c. 12. *Dawes's* Sermon. v. p. 73. *Moss's* Sermon. Vol. I. Sermon. xiv, xv. *Lake's* Sermon. on Hell Torments. *Beveridge's* Sermons, Vol. II. Sermon. viii. *Patrick's* Witnesses of Christianity, P. ii. *King* de Orig. Mali, Append. S. 2. *Dodwell's* Script. Account of eternal Rewards and Punishments. *Swinden* on the Nature of Hell.

55. *Utr.* Status futurus pateat lumine naturæ?

Aff.

Aff. Burnet de Statu Mortuorum, c. 2,
3. Sherlock on a future State. Gastrell's
Moral Proof of the Certainty of a future
State. Jac. Ode Theol. Nat. p. 192, 194.
Wollaston's Relig. of Nat. S. 9. Prop. 8.
Enquiry into the Nature of the Soul, S. 3.
Clarke's Evid. of Nat. and Rev. Rel. Prop.
4. p. 128. Cicer. Tusc. Qu. L. i. Vid.
supra, Qu. 22.

Neg. Hallet's Discourses, Vol. I. p. 210.

Ambig. Johnson's Sermon on the Insuf-
ficiency of the Law of Nature, p. 24.

56. *Utr.* Recte statuit MALEBRAN-
CHUS nos omnia in Deo videre?

Aff. Malebranche, Search after Truth,
P. iii. c. 6. p. 121. & *passim*. Norris's
Ideal World, P. i. Letters concerning the
Love of God.

Nec multum huic dissimilis videtur hy-
pothesis, quam tuetur Berkleyus. New
Theory of Vision. Princ. of Hum. Know-
ledge, p. 59. Minute Philos. Vol. I.
Dial. 6.

Neg. Locke's Letters in Oper. Post-
humo. Ant. Arnauld contra Malebranche.
Acta Erud. A. D. 1686. p. 183. Vid. plu-
res citat. in Fabricius de Verit. Rel. Chr. c.
16. p. 405. Vid. supra, Cap. 2. Qu. 1.

57. *Utr.* Conscientia constituat personalem identitatem?

Aff. *Locke's* Essay, B. ii. c. 27. His third Letter to the Bishop of *Worcester*, p. 165. *Elem. Log.* P. i. c. 3. S. 6.

Neg. *Lee* against *Locke*, p. 124. *Lupton's* and *Felton's* Sermons on the Resurrection. *Clarke's* Letters to *Collins*, p. 230.

58. *Utr.* Recte concordet ratio cum fide?

Aff. *Locke's* Essay, B. iv. c. 18. *Clerici Log.* P. ii. c. 9, 10. *Petri Poiret.* Fides & Ratio collatæ adversus principia *J. Lockii.* *Whiston's* Reason and Philos. no Enemies to Faith, in Sermons and Essays. *Barton de Concordia Scientiæ cum Fide.* *Leibnitz* *Essais du Theodicee.* *Huetii Alnetanæ* *Quæst.* L. iii. *Fiddes's* Theolog. Specul. B. iv. c. 1. S. 8.

Neg. *Philosophia scripturæ* interpretæ *Lud. Meyer.* *Blount's* Oracles of Reason. *Toland's* Christianity not mysterious.

Tolandum refutarunt *Brown*, *Answ.* to Christianity not mysterious. *Norris* of Reason and Faith. *Beconshall's* Christian Belief. *Langerhausen* *Mysteria Christianismi.* Vid. *Fabric.* p. 480.

59. *Utr.*

59. *Utr.* Ullum aliud sit principium individuationis, quam ipsa existentia?

Aff. A Scholasticis vulgo recensentur genus & differentia, tanquam principium individuationis?

Neg. *Philos. Burgund.* Tom. I. p. 480.
Locke's Essay, B. ii. c. 27. § 3.

60. *Utr.* Non-existentia præferenda sit miseriæ?

Quæstionem hanc copiosè discutit *Barlow*. Vid. *Remains*, p. 470.

CAPUT XI.

QUÆSTIONES ETHICÆ.

I. De SCIENTIA MORALI in genere.

1. UTRUM Ethica sit scientia propriè dicta?

Aff. Philos. Burgund. Tom. I. p. 223. Eustach. Eth. p. 3.

2. Utr. Dentur innata principia practica?

Aff. Sanderſon de Conſcient. Præl. i. p. 16. Sharrock de fin. p. 31. Lowde against Hobbes, c. 3.

Neg. Locke's Essay, B. i. c. 3. Pufendorf's Law of Nature, B. ii. c. 3. § 13.

Vid. Cap. 10. Qu. 1.

3. Utr. Detur innatus ſenſus moralis?

Aff. Shaftsbury's Enquiry concerning Virtue, in Charact. Vol II. Balguy's first Letter to a Deist, p. 6. Conybeare's Def. of Reveal'd Religion, p. 65. Sed hanc partem quæſtionis præcipue ornavit Hutcheson.

chesonus. Enquiry into the Ideas of Beauty and Virtue, P. ii. Illustration on the moral Sense, ad calcem libri de Passionibus. Idem *Conscientiæ* nomine quibusdam auctoribus venire solet. *Butler's* Three Sermons on Conscience; and Preface to the 2d Edition of his Sermons. Remarks on Mr. *Locke's* Essay; cui responsum eruditum reddidit anonymus, in, *Defence of Mr. Locke's* Essay, p. 65.

Neg. *Locke's* Essay, B. i. c. 3. *Velthuy-sen* de Princ. justit. & decori, p. 73. The Minute Philosopher, V. I. Dial. 3. Foundation of Morality, by *Clarke* of Hull.

Sunt qui moralem sensum ab habitu & Idearum associatione plane deducunt. Prelim. Dissert. to *Law's* English Version of *King* de Orig. Mali, Essay on Moral Obligation, c. 5.

4. *Utr.* Generalia scientiæ moralis præcepta sint intuitivè cognita?

Aff. *Clarke's* Evid. of Nat. and Rev. Rel. p. 63. cæterique qui innata principia practica, aut sensum moralem tuentur vel moralem obligationem ab abstractis rerum relationibus ducunt. Vid. Qu. 2, 3, 8.

Neg. *Locke's* Essay, B. i. c. 3. § 4, &c. Essay on Moral Obligation, c. 4. p. 26.

5. *Utr.*

5. *Utr. Moralis scientia fit capax demonstrationis?*

Aff. Locke's Essay, B. iv. c. 11. § 16, &c. Pufendorf's Law of Nature, B. i. c. 2. S. 4. Barbeyrac's Pref. Disc. to Pufendorf, S. 2.

6. *Utr. Privata felicitas ultimus actionum moralium finis esse debeat?*

Aff. Turner on the Laws of Nat. § 6. Cumberland de Legibus Nat. c. 5. § 2. p. 241. Pufendorf's Law of Nat. B. i. c. 6. § 5. B. ii. c. 3. § 14, 15. Essay on Moral Obligation, c. 1. & c. 5. p. 58. Mori Enchirid. Eth. L. iii. c. 2. Sherlock on Judgment, p. 20--25. Conybeare on Rev. Relig. p. 59. Law's Prelim. Dissertat. to King, p. 25. Ibid. note 53. p. 307.

Neg. Virtutem esse per se optabilem, & ultimum actionum finem docuerunt veteres Stoici. Vid. Diog. Laert. Cic. de finibus. Vel Stanley de vitis Philos. Eandem opinionem amplectuntur quidam recentiores. Sharrock de fin. p. 148. Clarke's Evid. of Nat. and Reveal'd Rel. Prop. 1. Dissertat. on the Law of Nat. annex'd to Maxwell's Cumberland, c. 1. Chubb, vid. his Vol. of Tracts,

Tracts, *passim*. *Balguy's Two Letters to a Deist, aliique Tract. passim.*

7. *Utr. Sanctio penalis sit Legi essentialis?*

Aff. Selden de Jure Nat. & Gent. L. i. c. 4. Pufendorf de Offic. H. & Civ. L. i. c. 2. § 7. Parker's Demonstr. of the Law of Nat. p. 60. Cumberland de Leg. Nat. Proleg. § 6. Essay on Moral Oblig. p. 59. Neg. Chubb's Reflections, p. 44. Maxwell's Dissertat. p. 55. aliique supra citati.

8. *Utr. Sublato statu futuro maneat ad virtutem obligatio?*

Aff. Hoadley's two Letters to Atterbury. His Tracts, p. 101. Shaftesbury's Characteristics, Vol. II. p. 57, 69. Butler's Pref. to a 2d Edit. of his Sermon. p. 17. aliique qui stant ex parte negativæ Quæst. præc.

Neg. Atterbury's Defence of his Sermon at Mr. Bennet's Funeral. Gastrell's Moral Proof of a future State, p. 40. His Boyle's Lect. p. 93. Wilkins's Nat. Rel. p. 67. Tildatson, Vol. II. Sermon xxiv. p. 157. Locke's Essay, B. ii. c. 21. § 54. Pearson on the Creed, p. 304. Scott's Christian Life, P. iii. c. 5. Sherlock on Judgment, p. 116.

9. *Utr.*

9. *Utr.* Voluntas Dei sit sola adæquata moralium actionum norma? Sive,

Utr. Formalis ratio virtutis consistat in conformitate ad voluntatem Dei?

Aff. *Locke's Essay*, B. i. c. 3. § 18. B. ii. c. 28. § 5--8. *Stillingsfleet's Irenic.* c. 1. § 4. *Cumberland de Leg. Nat.* c. 5. § 27. *Parker's Demonstr. of the Law of Nat.* P. i. § 31. *Cartesii Meditat. Obj. & Resp.* 5tæ. *Sanderfon de Conscient.* Præl. iv. § 20--23. *Dawson's Origo Legum*, c. 2. *Sharpe's Serm.* Vol. II. p. 299. Vol. IV. p. 198. *Pufendorf's Law of Nat.* B. i. c. 2. § 6. *Barbeyrac in loc.* *Gastrell's Boyle's Lect.* Divine Benevolence. *Taylor's Ductor Dubitant.* B. ii. c. 1. p. 232, 263. *Foundation of Morality*, by Mr. *Clarke* of *Hull.* *E. Law's Notes to King*, p. 87, 304. & *Prelim. Dissertat.* S. 2. *W. Law's Case of Reason*, p. 47. *Felton's Pref. to Moyer's Lecture*, p. 18, 34, 51. *Essay on Moral Obligat.* c. 1.

Neg. Alii volunt formalem rationem virtutis in conformitate cum abstractis rerum relationibus consistere. *Dr. Clarke's Evid. of Nat. and Rev. Relig. Prop. 1.* *Balguy's Foundation of Moral Goodness*, aliique ejus tractatus *passim.* *Grotius de Jure*, B.

B. & P. L. i. c. i. § 10. *Fiddes* on Morality. Preface to the second Vol. of his Body of Divinity. *Chubb's* Previous Question; and Supplement. *Norris's* Miscell. p. 142, 153, 370.

Sunt, qui in veritate ponunt, non tam in re quam in voce *Clarkianis* dissimiles. *Rust* upon Truth. *Wollaston's* Relig. of Nature, S. i.

10. *Utr.* Moralis actionum natura, ordine naturæ, voluntati divinæ antecedit?

Aff. *Cudworth's* eternal and immut. Morality, c. 3. Dr. *Clarke's* Evid. of Nat. and Rev. Religion. Prop. i. p. 86. *Grotius* de Jure, B. & P. Prol. § 11.

Neg. *Smiglec.* Disp. iv. Qu. i. p. 133. *Pufendorf's* Law of Nature, B. i. c. 2. § 6. *Law's* Notes on *King*, n. 53. p. 302. Essay on Moral Obligat. c. i. *Law's* Case of Reason, p. 49. Conf. Auctores supra citat.

In quo sensu intelligi debet relationes rerum antecedere Dei voluntati, vid. apud *Conybeare*, Rev. Relig. p. 56.

11. *Utr.* Moralis actionum natura à magistratu unicè derivetur?

Aff. Hobbes Leviath. passim. De Cive, c. 12. § 1.

Neg. Cudworth. Intell. Syst. p. 92. Ed. Mosb. p. 92. Eternal and Immut. Moral. c. 1, 3. Hooker's Eccles. Polit. B. i. S. 10. Taylor's Ductor. Dubit. B. iii. Sparrock de fin. p. 157. Whitby's Eth. c. 6. Cumberland de Leg. Nat. c. 5. § 5. Clarke's Evid. of Nat. and Rev. Religion, p. 96.

12. *Utr. Virtutis & vitii Leges sint æternæ & immutabiles?*

Aff. Le Grand Instit. Phil. P. 10. c. 8. Cudworth on Etern. and Immut. Moral. c. 1. cæterique ad quæst. præc. citati. In quo sensu intelligi debet hæc quæstio, vid. in Norris's Miscell. p. 370. Conybeare's Def. of Reveal'd Relig. p. 147. Locke's Essay, B. iv. c. 11. § 14. Essay on Moral Obligation, c. 3. W. Law's Case of Reason, p. 51. Edm. Law's Notes on King de Orig. Mali, n. 57. Locke's Essay, B. iv. c. 11. § 14.

Neg. Hobbes. Leviathan, c. 10. De Cive, c. 1.

13. *Utr. Natura virtutis in mediocritate ponatur?*

Aff.

Aff. *Arist. Eth. L. ii. c. 6. Eustach. Eth. p. 71. Philos. Burgund. Tom. I. p. 332. Crellii Arist. Eth. P. ii. c. 5. Mori Enchirid. Eth. L. ii. c. 9.*

Neg. *Grotius de Jure B. & P. Proleg. § 43. Barbeyrac's Pref. to Pufendorf, p. 61. Wollaston's Relig. of Nat. p. 24. Le Grand Instit. Philos. P. x. c. 7.*

14. *Utr.* Virtutum distributio in quatuor Cardinales; viz. Prudentiam, Temperantiam, Fortitudinem & Justitiam, sit justa & maxime propria?

Aff. *Cic. de Offic. L. i. Philos. Burgund. Tom. I. p. 337. Le Grand Instit. Philos. P. x. c. 9.*

Neg. *Peripatetici* alias divisiones instituunt. *Aristot. Eth. Crellii Eth. Aristotel. Mori Enchir. Eth. L. ii.*

15. *Utr.* Bona Intentio ad Bonitatem actûs sufficiat?

Neg. *Sanderson Præl. de Conscient. ii. p. 27.*

16. *Utr.* Veritas quâ veritas sit prosequenda? Sive,

Utr. Alium verbis decipere sit simpliciter illicitum?

Aff. *Wollaston's Relig. of Nat.* S. i. Prop. 4. *Whitby Eth.* L. ii. c. 5. § 12.

Neg. *Grotius de Jure B. & P.* L. iii. c. 1. § 12. *Pufendorf's Law of Nat.* B. iv. c. 1. § 7, 16. *Barbeyrac in loc.* *Moss's Serm.* Vol. II. Serm. x.

17. *Utr.* Juramentum à latrone vi & metu extortum obliget?

Aff. *Sanderson de Juram. Oblig.* Præl. iv. § 15, 17. *Grotius de Jure B. & P.* L. ii. c. 13. § 14.

Neg. *Cic. de Offic.* L. iii. c. 29. *Senec.* 1. Controv. 6. *Pufendorf's Law of Nat.* B. iv. c. 2. § 8. *De Offic. Hom. & Civ.* L. i. c. 11. § 6.

18. *Utr.* Conscientia erronea obliget?

Aff. *Taylor's Ductor.* Dubit. B. i. c. 3. p. 102. *Whitby's Eth. Compend.* p. 27. *Ostervaldi Eth.* p. 47. *Sanderson de Conscient.* Præl. i. *Sharpe's Serm.* Vol. II. *Pufendorf de Off. Hom. & Civ.* L. i. c. 1. § 7.

19. *Utr.* Conscientia invincibiliter erronea sit inculpabilis?

Aff.

Aff. Auctores supra citati.

20. *Utr.* Leges humanæ conscientiam obligent?

Aff. Taylor's Ductor. Dub. B. iii. c. 8. Sanderſon de Conſc. Præl. v. § 6.

21. Conſcientia ſit lumen mentis innatum?

Aff. Sanderſon de Conſc. Præl. iv. § 24. Vid. ſupra, Qu. 2, 3.

22. *Utr.* Voluntas Dei ſit ſola adæquata conſcientiæ regula?

Vid. ſupra, Qu. 8.

23. *Utr.* Hæc regula, *Quod dubitas ne feceris*, ſit in rebus moralibus admittenda?

Aff. Pufendorf de Offic. H. & C. L. i. c. 1. § 6. Sanderſon de Obligatione Conſc. Præl. vi. § 17. Taylor Ductor, Dubit. B. i. c. 5. De milite dubitante, vid. infra, Qu. 45.

24. *Utr.* Suicidium ſit licitum?

Aff. *Persian Letters*. *Philosophical Letters concerning Death*. *Life of C. Blount*.

Neg. *Adams on Self-Murder*. *Fleetwood's Sermons on the Subject*. *Sherlock on Death*.

Death, Provid. c. 7. p. 249, 252. *Law's*
Notes on *King*, p. 456. n. 2.

25. *Utr.* Culpâ non communicatâ, communicari possit pœna?

Neg. Grotius de Jure B. & P. L. ii. c. 21. § 9. *Pufendorf's* Law of Nat. B. i. c. 9. § 2, 10. B. viii. c. 3. § 31. c. 4. § 32. *Taylor's* Ductor. Dubit. Vol. II. p. 121.

26. Volenti fieri possit injuria?

Neg. Philos. Burgund. Tom. I. p. 356. *Crellii* Eth. P. ii. c. 18. p. 143.

27. *Utr.* Passiones sint innatæ?

Aff. Whitby's Eth. c. 8. *Malebranche's* Search after Truth, B. v. c. 1. *Jac. Ode* Theol. Nat. p. 171. *Le Grand* Instit. Philos. P. x. c. 13.

Neg. Locke, B. ii. c. 20. Sunt, qui earum originem ab usu & Idearum associatione derivant. *Law's* Prelim. Dissert. to *King*. Essay on Moral Obligation, c. 5. *Hutcheson* on the Passions. *Watts* on the Passions.

28. *Utr.* Passiones sint vitiosæ?

Neg. Eustach. Eth. p. 55. *Le Grand* Instit. Phil. P. x. c. 13. *Philos. Burgund.* Tom.

Tom. I. p. 431. *Ostervaldi Eth. Christiana*, p. 33. *Whitby's Eth.* p. 85. *Mori Eth. Ench.* L. i. c. 6. *Wollaston's Relig. of Nat.* p. 174. *Watts* on the Use and Abuse of the Passions, § 13. *Dr. J. Clarke* on Natural Evil, p. 256. *Scott's Christian Life*, P. ii. c. 1. S. 2. par. 23. Notes on *King de Orig. Mali*, n. m. *Chamber's Cyclopæd.* ad voc. PASSION.

29. Amor & averfio fint generales affectus, ex quibus cæteri omnes nascuntur?

Aff. Philos. Burgund. p. 423. *Law's Prelim. Dissert. to King*, p. 63. *Locke's Essay*, B. ii. c. 20.

30. Utr. Ex appetitu sensitivo major fit voluptas quam ex rationali?

Aff. Epicurei & Hobbesiani.

Neg. Sharrock de fin. p. 20. *Cumberland de Leg. Nat.* *Wollaston's Religion of Nat.*

II. De STATU NATURÆ.

31. Utr. Existat Lex naturæ?

Aff. Sharrock de fin. c. 2. p. 204. *Cumberland de Leg. Nat.* c. 2. *Parker's*

ker's Demonstr. of the Law of Nature, P. i. § 1. A Dissertation on the Law of Nat. annex'd to Maxwell's Translation of Cumberland de Leg.

Neg. Hobbes de Hom. P. i. c. 13, 26, & passim.

32. *Utr. Detur jus gentium a jure naturæ distinctum?*

Aff. Grotius de Jure B. & P. Proleg. § 17, 40. & L. iii. c. 4. § 153.

Neg. Hobbes de Cive, c. 6, 14.

Sed Locutiones, Jus Naturæ & Jus Gentium, nonnulli auctores commiscant, perinde ac alii Jus Gentium & Jus Civile. Justinian. Instit. L. i. tit. 2. Pufendorf's Law of Nat. B. ii. c. 3. § 21. & B. viii. c. 1. Idem de Offic. Hom. L. ii. c. 1. Calvini Lexic. Jurid. ad voc. jus.

35. *Utr. Status Naturæ sit status Belli?*

Aff. Hobbes's Leviath. P. i. c. 13. Idem de Cive passim.

Neg. Plato de Leg. L. i. pr. Cumberland de Leg. Nat. L. ii. c. 2. Sharrock de fin. p. 136. Locke upon Government, B. ii. c. 2, 3. Pufendorf's Law of Nat. B. ii. c. 2. Ejusdem Dissert. Academ. p. 582. Et Elem. Jurisprud. p. 273. Lowde's Disc.

con-

concerning Man, c. 5. *Parker's Dem. of the L. of Nat. P. i. § 4. Innes's al. Campbell's Enq. into the Orig. of Moral Virtue.*

36. In statu naturæ unicuique jus competat in omnia ?

Aff. Hobbs de Cive, c. 1. § 10.

Neg. Cumberl. de Leg. Nat. c. 2. Pufend. Law of Nat. L. ii. c. 2. § 5. L. iii. c. 5. § 3.

37. Utr. Omnes homines sint naturæ æquales ?

Aff. Hooker's Eccl. Pol. B. i. Hoadly's Exam. of the Patr. Scheme. Locke on Gov. B. ii. c. 2. Pufendorf's L. of Nat. B. iii. c. 2. § 2. Wollaston's Rel. of Nat. S. 6.

Neg. Filmer's Patriarcha. Ramsay's Essay on Civ. Govern. Hereditary Right.

31. Utr. Jus Dei in creaturas fundetur in ejus irresistibili potentia ?

Aff. Hobbs, Leviath. c. 31.

Neg. Pufendorf's Law of Nature, B. i. c. 6. § 10. Cumberland de Leg. c. 7. § 7.

III. De STATU CIVILI.

38. Utr. Status civilis, vel Imperium civile, oriatur ex pactis ?

C c

Aff.

Aff. Locke on C. Gov. per tot. Sidney on Governm. Hoadly's Or. & Inst. of Civil Gov. Hooker's Eccl. Pol. B. i. § 10. Sharrock de Fin. p. 274. Cumberl. de L. Nat. Proleg. § 26. Temple's Miscell. Vol. I. p. 45. Univ. Hist. Vol. I. p. 171. Pufendorf's L. of Nat. B. iii. c. 2. & B. vii. c. 1. § 7. Grotius de Jure, Proleg. § 15. L. i. c. 3. § 8. Wollaston's Relig. of Nature, S. 6.

Neg. Sunt, qui a Deo per Patriarchas originem ducunt. Filmer's Patriarcha. Lessly on the Origin. of Civ. Govern.

39. *Utr. Supremo magistratui resistere liceat, si aliter Respub. servari nequit?*

Aff. Grotius de Jure B. & P. L. i. c. 4. § 7. & L. ii. c. 4. § 14. Pufendorf's L. of Nat. B. ii. c. 8. Sidney on Govern. c. 3. § 36. Locke on Govern. B. ii. c. 18. Miltoni Defens. Pop. Angl. Hoadly's Orig. and Instit of Civil Government. Tyrrell's Biblioth. Politic. Sharrock de fin. p. 287.

Neg. Hobbs, Leviath. c. 20. De Cive, c. 7. § 14. Filmer's Patriarcha, c. 2. p. 72. Freeholder's Grand Inquest. B---d's Hereditary Right. Taylor's Ductor Dubit. B. iii. c. 3.

Argumenta ex utraque parte, vid. in Sacheverell's Tryal,

40. *Utr.*

40. *Utr.* In imperio civili fides data summum magistratum obliget ?

Aff. *Sbarrock* de Fin. p. 277. *Grot.* de Jure, &c. L. i. c. 3. § 16.

Neg. *Hobbs*, *Leviath.* c. 18.

41. *Utr.* Salus Populi sit suprema lex ?

Aff. *Sanderſon* de Conſc. Præl. ix. *Budæi* Philoſ. Pract. P. iii. c. 3. Unà cum auctoribus in Qu. 38. affirmantibus.

Neg. *Machiav.* de Rep. *Hobbs's* *Leviath.*

42. *Utr.* Liceat principi ſubditos alienos contra gravem & manifeſtam imperantis injuriam bello defendere ?

Aff. *Grotius* de Jure B. & P. L. ii. c. 25. § 8. L. iii. c. 1. § 21. *King's* State of the Proteſt. in *Ireland*, c. 1. Vid. Q. 39.

43. Bellum aliquod juſtum ſit jure naturæ ?

Aff. *Grotius* de Jure, &c. L. i. c. 2. *Pufendorf's* Law of Nat. B. viii. c. 6.

44. *Utr.* Militibus dubitantibus, an Bellum ſit juſtum necne, militandum ſit ?

Aff. *Sanderſon* de Conſcient. Præl. vi. § 17. *Taylor* Ductor. Dubit. B. i. c. 5.

p. 184. *Sharpe's Sermons*, V. II. p. 289.
Pufendorf's Law of Nat. B. viii. c. 1. § 8.

Neg. Grotius de Jure B. & P. L. ii. c. 26. § 4.

45. *Utr. Civem innocentem liceat nostri tradere, ut evitetur imminens Reip. ruina?*

Aff. Grotius de Jure B. & P. L. ii. c. 25.
Neg. Pufendorf's Law of Nat. B. viii. c. 2. § 5.

46. *Utr. Legati in eum, ad quem mittuntur, delinquentes sint jure gentium ab eodem puniendi?*

Neg. Grot. de Jure, &c. L. ii. c. 18. § 4.

47. *Utr. Mare jure liberum sit?*

Aff. Grotii Mare Liberum.

Neg. Seldeni Mare Clausum. Pufendorf's Law of Nat. B. iv. c. 5. § 5.

48. *Utr. In res quæ singulorum sunt propriæ jus omnibus competat extremæ necessitatis & innoxie utilitatis?*

Aff. Grotius de Jure, L. ii. c. 2. § 6.
Pufendorf's Law, &c. B. ii. c. 6. § 5.

Neg. Wollaston's Rel. of Nat. p. 28.

A P.

A P P E N D I X

DE

LEGIBUS DISPUTANDI

EX

ADRIANI HEEREBOORD

P R A X I L O G I C A Excerpta.

UT debite instituatur disputatio, nonnulla circa ejus *materiam*, alia circa ejus *formam* sunt observanda.

I. Circa materiam disputationis sunt hæ tenendæ regulæ.

1. Quicquid excedit captum disputantium, de eo nulla fiat disputatio ^a.

2. Quicquid controversum non est, obiectum disputationis esse non debet.

3. Materia disputationis sit utilis & gravis, & ad veritatem indagandam instituta ^b.

^a Sic in scholis philosophicis non sunt tractandæ thesæ theologicæ; nec in quæstione philosophicâ petenda sunt argumenta ex sacris literis.

^b Sic quæstiones ex intimis disciplinarum (ethicæ, physicæ, vel metaphysicæ) penetratilibus petitæ iis præferendæ sunt, quæ vel sunt merè logomachicæ, vel de lanâ caprinâ instituuntur.

II.

II. Forma disputandi consistit in collatione, διαλέξει, ideoque ad eam distinctæ requiruntur personæ, inter quas διαλέξις & collatio mutua institui queat : harum una impugnat alterius sententiam, altera sententiam suam tuetur & defendit. Prior *opponentis*, posterior *respondentis* nomine venit.

Opponens & Respondens partes habent quasdam communes, quasdam proprias.

Canones utrique parti *communes* quidam ex Logica, quidam ex Ethica desumuntur ; agendum enim in disputando & Ethicè & Logicè.

1. Ad disputationem ab utraque parte adferri debet animi bona intentio, quæ non gloriam, sed veritatem quærat.

2. Adferri debet animus purus & liber ab omni præjudicio.

3. Neuter alterius partes suscipiat, neque opponens in parte respondentis inolet, aut contra.

4. Conveniant inter se de certis præcognitis principiis, ne de re utrimque concessa disputetur.

5. Brevitati & perspicuitati imprimis studeatur, omisissis rhetoricationum ambagibus & longis declamationibus.

6. Patienter alter alterum exspectet, dum orationem absolvat.

7. Ab

7. Ab omni contumelia, convitio, calumnia, ac risu sycophantico, utrimque abstineatur; & ante victoriam acceptam ne triumphetur.

8. Status controversiæ firmiter utrimque ponatur, ac probe cognoscatur, nec inter disputandum mutetur.

Speciale utriusque etiam est officium: ac primo *opponentis*.

1. *Opponentis* est 1. Thesin impugnare objectionem movendo; 2. Ad solutionem datam instare, excipiendo. Ut feliciter thesin impugnet, requiritur;

1. Ut sententiæ respondentis directe contradicat; quod ut fiat, oportet ante omnia diligenter thesin respondentis considerare, & accurate despicere, quomodo ei antithesis directe opponi possit.

2. In thesibus respondentis, si plures sint, ut fere esse solent, examinandis, accurate distinguat opponens argumenta seu rationes quibus theses probantur, ab ipsis thesibus quibus probandis adhibentur; aliud enim est argumenta destruere, aliud thesin evertere. Itaque aliter est versandum circa thesin, aliter circa theses probationem.

3. In examine probationis consideretur, num argumenta thesi convenient, num ei-

dem

dem probandæ sufficient, an vero aliena sint à thesi ac minus firma.

4. Thesin autem ipsam expendere oportet, utrum sit affirmativa an negativa, universalis an particularis, synonymica an paronymica ; adeoque, secundum affectiones logicas enunciationis eam examinare oportet.

5. Tum oportet formare antithesin & directam oppositionem secundum leges contradictionis, quas præscribit Logica ; & non contradicendum verbis tantum thesios, sed sensui & menti ipsius adversarii.

6. Si quis non directam antithesin faciat, facile committit peccatum illud quod vocant ignorantiam elenchi.

7. Thesi expensa, cogitandum est oppo-
nenti de termino medio, qui invenitur utrumque conclusionis membrum deducendo per loca inventionis aut affectiones logicas, vel afferendo authoritates quæ non possunt rejici.

8. Terminus medius cum partibus quaestionis syllogismo bono comprehendatur.

9. Sed in mediorum inventione delectus est habendus, neque enim argumenta omnia æque ponderosa sunt.

10. De auctoritate hoc etiam tenendum, non esse extra theologiam utendum multâ auctoritate.

11. Argumentum, syllogistica forma brevissime & perspicue inclusum, clare proponatur ; ac, si fieri possit, forma plerumque sit categorica.

12. Duplici genere argumentationis uti potest opponens ; & directa seu offensiva, & ea quæ ducit ad absurdum.

13. Præterea, non ea tantum moveat argumenta quæ ex problematis natura peti possunt, sed etiam quæ ex adversarii hypothese sequuntur.

14. Imprimis urgere potest respondentem ex concessis.

15. Ante omnia attendat diligentissime opponens, ut propositionem, vel negatam vel distinctam, eandem assumat, ac faciat sui syllogismi conclusionem.

16. Semper legitimos & bonos syllogismos producat, conformes legibus syllogisticis.

17. Si figura argumenta sui repudietur, requirat canonem logicum in quem peccet, aut si ipse viderit, statim corrigat.

18. Si ad materiam respondeatur, ut plerumque, videat an sit distinctio vocis ambiguae, an limitatio, an negatio.

19. Si ad distinctionem aut limitationem respondeatur, responsio ad leges & canones distinctionis & limitationis examinetur.

IV. Speciale officium *respondentis* est, argumentum assumere opponentis & *fo- vere*.

1. Respondens non assumat, nisi jam dicendi finem fecerit opponens.

2. Isdem verbis repetat, quibus argumenta fuerunt proposita.

3. Si opponentis argumentum sit vitiosum, vel obscuritate laboret, monebit eum respondens; vel si juvandus sit opponens, tum licebit evidentioribus verbis & alia figura idem argumentum proponere.

4. Si opponens prolixa utatur declamatione, vel confusa argumentatione, vel obscura locutione, monebit respondens, ut breviter & clare proponatur argumentum in certa figura ac modo.

5. In assumendo argumento prius considerabit ejus figuram, postea materiam.

6. Si forma sit vitiosa, rejiciatur, indicato vitio.

7. Ubi argumenti formam rectam esse viderit; ac respondere cogitat, videat primum, an conclusio recte feriat suam thesin.

8. Si non recte ei opponatur, non est necesse respondere aliud, quam quod ignoratio elenchi sit.

9. Si conclusio sit multiplex, distinguatur; distinctione adhibita, ostendatur in quantum

quantum contradicat suæ thesi, & adhibeatur responsio.

10. A conclusione transeundum ad præmissas, & primum ad majorem, deinde ad majorem, deinde ad minorem.

11. Propositiones veræ concedendæ sunt, falsæ negandæ, ambiguæ distinguendæ.

12. Si propositio universalis sit simpliciter falsa, adferenda est instantia ad falsitatem universalem ostendendam.

14. Major propositio neganda si sit hypothetica, debet negari consequentia; si disjunctiva, disjunctio; si categorica, simpliciter neganda.

15. Si distinctio adhibeatur majori, eadem est applicanda minori & conclusioni.

16. Nunquam vero responderi debet negando, si solve possit argumentum distinguendo & limitando.

17. Major rarius falsa est aperte, sed sæpius ambigua; ideoque frequentius distinguenda ac limitanda, quam neganda.

18. Minor rarius venit limitanda, vel distinguenda, sæpius neganda.

19. Nunquam ad minorem respondendum est, nisi constiterit ac certum sit majorem esse extra omne vitium.

20. Imo minor nunquam limitanda est, nisi limitata majore,

21. Si

21. Si authoritates respondenti objiciantur virorum doctissimorum, illæ non sunt arroganter ipsi rejiciendæ; sed aut conciliet eas cum sua sententia; aut, si non possit, alterius viri æque clari ac docti adducat argumentum.

22. Licebit & respondenti interdum responsione uti indirecta, & argumentum retorquere in opponentem, vel aliud fortius adducere.

23. Nunquam tamen est utendum indirecta responsione, nisi prius sit responsum directe.

4. OC 38

F I N I S.



